

MARVIN

**SOLICITATION OFFER
AND AWARD**
(Construction, Alteration, or Repair)

1. SOLICITATION NO.

D73131-90-8-0042

2. TYPE OF SOLICITATION

☒ SEALED BID (FB)
☐ NEGOTIATED (RFP)

3. DATE ISSUED

06/29/90

PAGE OF PAGES

1/ 121

IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.

4. CONTRACT NO.

DABT31-90-C-0044

5. REQUISITION/PURCHASE REQUEST NO.

W58XJ6-0121-A079

6. PROJECT NO.

W0R# EP427-88

7. ISSUED BY

CODE

8. ADDRESS OFFER TO

DIRECTORATE OF CONTRACTING
 FAX 314-596-4681
 P.O. BOX 140
 FT. LEONARD WOOD, MO 65473-0140

DIRECTORATE OF CONTRACTING
 FAX 314-596-4681
 P.O. BOX 140
 FT. LEONARD WOOD, MO 65473-0140

9. FOR INFORMATION
CALL:

A. NAME

Princess Fahnestock

B. TELEPHONE NO. (include area code) (NO COLLECT CALLS)
(314)596-5144

SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, Identifying no., date):

TITLE OF PROJECT: Renovation of Three Warehouses at US Army Reserve Center, St Louis, MO

Drawing No. and Title: 900509.2, Renovate 3 Warehouses at St. Louis No. 4

See attached schedule(s)

40330496



Superfund

DUPLICATE ORIGINAL

Award is made pursuant to the Small Business Competitiveness Demonstration Program.

11. The Contractor shall begin performance within 5 calendar days and complete it within 45 calendar days after receiving
☐ award, ☒ notice to proceed. This performance period is ☒ mandatory, ☐ negotiable. (See _____.)

12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS?
 (If "YES," indicate within how many calendar days after award in item 12B.)

☒ YES ☐ NO

12B. CALENDAR DAYS

010

13. ADDITIONAL SOLICITATION REQUIREMENTS:

A. Sealed offers in original and 0 copies to perform the work required are due at the place specified in item 8 by 14:30 (hour)
 local time 7/30/90 (date). If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes
 containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

B. An offer guarantee ☒ is, ☐ is not required.

C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by
 reference.

D. Offers providing less than 90 calendar days for Government acceptance after the date offers are due will not be considered and
 will be rejected.

OFFER (Must be fully completed by offeror)

4. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)

HOF CONST. CO.
3137 JAMIESON AVE.
ST. LOUIS, MO. 63139

13. TELEPHONE NO. (Include area code)

314-645-2200

18. REMITTANCE ADDRESS (Include only if different than Item 14)

CODE

FACILITY CODE

17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government within 90 calendar days after the date offers are due. (Insert any number equal to or greater than the minimum requirement stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)

AMOUNTS



SEE

SECTION

B

18. The offeror agrees to furnish any required performance and payment bonds.

19. ACKNOWLEDGMENT OF AMENDMENTS

(The offeror acknowledges receipt of amendments to the solicitation - give number and date of each)

AMENDMENT NO.	0001	0002	0003								
DATE	6-29-90	7/26/90	7/31/90								

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)

DANIEL HOF ESTIMATOR

20B. SIGNATURE

Daniel Hof

20C. OFFER DATE

8-14-90
~~7-30-90~~

AWARD (To be completed by Government)

21. ITEMS ACCEPTED:

0001, 0002, 0003, 0004, 0005, 0006 and 0007

22. AMOUNT

\$128,245.00

23. ACCOUNTING AND APPROPRIATION DATA

2102080 00000 76 2090 515294.K2000 2572 000000
W58XJ60121A079 S23037 GKBK00

24. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)

ITEM
26

25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO

☐ 10 USC 2304(c)☐ 41 USC 253(c)

26. ADMINISTERED BY

CODE

Contract Administration Division
P.O. Box 140 (314) 596-7111
Fort Leonard Wood, MO 65473-0140
Criticality Designator Code C

27. PAYMENT WILL BE MADE BY

Finance & Accounting Division
Building 408
Fort Leonard Wood, MO 65473-5000

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

☐ 28. NEGOTIATED AGREEMENT (Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all work, requirements identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications or incorporated by reference in or attached to this contract.

☒ 29. AWARD (Contractor is not required to sign this document.) Your offer on the solicitation, is hereby accepted as to the items listed. This award summarizes the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.

30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN (Type or print)

31A. NAME OF CONTRACTING OFFICER (Type or print)

MARILYN J. BASSETT

30B. SIGNATURE

30C. DATE

31B. UNITED STATES OF AMERICA

BY

Marilyn J. Bassett

31C. AWARD DATE

90 SEP 21

REVISED PER AMEND. 0002
DATED 26 Jul 90

SECTION 8
SUPPLIES OR SERVICES AND PRICES/COSTS

8.1 Notice to proceed will not be issued on this requirement
until Asbestos Abatement completed under another requirement.

REMOVAL OF THREE WAREHOUSES AT
US ARMY RESERVE CENTER
ST. LOUIS (STL#4), MISSOURI

WOR# 427-88
DRAWING #900509.2

ITEM	DESCRIPTION	QUANTITY	U/M	U/P	AMOUNT
0001	Remove and Dispose of Existing Steel Tunnel Doors, Handrails, Downspouts, Windows, Fascia Boards and Provide and Install New Tunnel Doors, Handrails, Fascia Boards, Aluminum Fascia, Gutter and Downspouts, Aluminum windows, and Window Guards in accordance with the attached specifications and drawings	1	JB	LUMP . SUM	38,508.00
0002	Repair, clean, prime, and paint existing handrails, steel deck channels, sliding steel doors, vents, hardware for doors, and frames with mounting trolleys in accordance with the attached specifications and drawings.	1	JB	LUMP . SUM	7263.00
0003	Provide and install door glass guards and concrete block walls in tunnel area in accordance with the attached specifications and drawings.	1	JB	LUMP . SUM	5561.00
TOTAL BASIC BIDS ITEMS 0001 THRU 0003					\$ 51,332.00

ITEM	DESCRIPTION	QUANTITY	U/M	U/P	AMOUNT
0003	(Continued)				
	ADDITIVE BID ITEMS:				
0004	REMOVE EXISTING LIGHTNING RODS, INTERIOR AND EXTERIOR WIRING, CONDUIT AND ELECTRICAL COMPONENTS, AND SLATE ROOF, PATCH AND REPAIR ROOF DECK, RAFTERS, JOIST, AND INSTALL NEW ROOF SYSTEM WITH VENTILATORS. REMOVE GYPSUM BOARD AND INSULATION FROM CEILING, AND REPLACE GYPSUM CEILING IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS AND DRAWINGS.	1	JB	LUMP . SUM	54027.00
0005	PROVIDE AND INSTALL APPROXIMATELY TWO (2) INCHES THICK CONCRETE ON THE 12,000 SQUARE FEET OF FLOOR AREA IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS AND DRAWINGS.	1	JB	LUMP . SUM	11922.00
0006	PATCH, REPLACE, AND REPAIR CONCRETE DOCK AND STEPS, LOOSE BRICK AND COPING, AND HOLES IN BRICK IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS AND DRAWINGS.	1	JB	LUMP . SUM	7104.00
0007	CONTRACTOR SHALL REMOVE APPROXIMATELY 520 LINEAR FEET OF LOOSE STONE COPING AND LOOSE BRICKS UNDER STONE COPING ON PARAPET WALLS AND WINDOWS, REMOVE OLD MORTAR AND REINSTALL STONE COPING AND BRICKS WITH NEW MORTAR TO ORIGINAL CONDITION.	1	JB	LUMP . SUM	3840.00
	TOTAL ADDITIVE BID ITEMS 0004-0007				76893.00
	TOTAL BID (ITEMS 0001 THRU 0007)				128,245.00

END OF SECTION B

SECTION C
SPECIFICATIONS
FOR
RENOVATION OF THREE WAREHOUSES AT
US ARMY RESERVE CENTER
ST. LOUIS (STL#4), MISSOURI

WOR# 427-88
DWG# 900509.2

INDEX

<u>SECTION NO.</u>	<u>DESCRIPTION</u>
DIVISION 1 - GENERAL REQUIREMENTS	
01010	Summary of Work
01300	Submittals
DIVISION 2 - SITE WORK	
02050	Demolition
DIVISION 3 - CONCRETE	
03300	Concrete for Construction (Minor Requirements)
DIVISIONS 4 - 5 (NOT USED)	
DIVISION 6 - WOOD AND PLASTIC	
06100	Rough Carpentry
DIVISION 7 - THERMAL AND MOISTURE PROTECTION	
07311	Roofing, Strip Shingles
07600	Sheet Metalwork - General
DIVISION 8 - DOORS AND WINDOWS	
08100	Metal Doors and Frames
08520	Aluminum Windows

DIVISION 9 - FINISHES

09250

Gypsum Board

09900

Painting

DIVISIONS 10 - 16 (NOT USED)

SECTION 01010

SUMMARY OF WORK

1. DESCRIPTION OF WORK:

1.1 Work to be Done: The work consists of furnishing all plant, labor, equipment, materials and supervision to execute the work in accordance with these specifications and drawing numbers 900509.2 for the renovation of three (3) warehouse buildings at the US Army Reserve Center (USARC), St. Louis, Missouri.

1.2 Location: The proposed work is located at USAR Center, 4301 Goodfellow Blvd/Stradford Avenue, St. Louis, MO. 63120-1794. For access to this facility, contact Mr. James Rakers at (314) 263-2633.

2. PRINCIPAL FEATURES: Work to be performed will include, but will not be limited to the following principal features:

BASIC BID ITEMS:

2.1 Bid Item 0001:

2.1.1 Contractor shall remove 24 existing windows, frames, and eight (8) interior window guards and replace with new thermal sliding windows with screens, frames and exterior windows guards. The Contractor shall re-use the eight (8) existing guards after cleaning, repairing, priming, and painting. The Contractor shall fabricate 16 new window guards to match the eight (8) existing guards, and install on the exterior of new windows.

2.1.2 Contractor shall remove and replace 600 linear feet of fascia. Fascia shall be covered with aluminum fascia.

2.1.3 Contractor shall provide and install approximately 600 linear feet of aluminum gutter and 120 linear feet of aluminum downspouts with concrete splash blocks.

2.1.4 Contractor shall remove and replace eight (8) sets of handrails, and five (5) steel doors and hardware to tunnel access. The existing door frames shall be repaired, cleaned, primed and painted.

2.2 Bid Item 0002:

2.2.1 Contractor shall clean, prime and paint two (2) sets of handrails, 330 linear feet of seven (7) inch steel channel and six (6) metal vents.

2.2.2 Contractor shall remove, clean, prime, repair, paint and lubricate 18 sets of existing double sliding steel doors, mounting assemblies, hardware for doors, mounting trolleys, and reinstall to original location. This operation shall include replacing all window glass with wire reinforced panes.

2.3 Bid Item 0003:

2.3.1 Contractor shall provide and install 36 door glass guards on the exterior of the sliding doors. There are 12 of the 36 door glass guards existing and mounted on the interior of the glass portion of the door. The Contractor shall modify if necessary, and re-use existing guards after cleaning, repairing, priming, and painting. However, the door glass guards shall be reinstalled on the exterior glass window portion of the doors. Contractor shall submit plan and drawings of anchoring method for approval.

2.3.2 Contractor shall provide and install three (3) eight (8) inch concrete block walls approximately 20 square feet each in the tunnels under the buildings.

ADDITIVE BID ITEMS:

2.4 Additive Bid Item 0004:

2.4.1 Contractor shall remove approximately 12,000 square feet of gypsum board on the ceiling, and four (4) inch thick insulation above the ceiling. Contractor shall replace gypsum wall board on ceilings of buildings, taped, finished and painted.

2.4.2 Contractor shall remove and replace approximately 20 lineal feet of flashing, damaged or deteriorated roof sheathing, structural lumber including purlins, ceiling joist, trusses and accessories.

2.4.3 Contractor shall remove existing lightning rods, interior and exterior wiring, conduit, lights, and electrical components.

2.4.4 Contractor shall remove slate roof tile, and provide and install 13,000 square feet of asphalt shingles and install 12 each 12 inch diameter throat turbine ventilators in roof with automatic dampers.

2.5 Additive Bid Item 0005:

2.5.1 Contractor shall resurface existing concrete floor with approximately two (2) inch depth of concrete in 12,000 square foot floor area. Existing two (2) inch of surface

flooring will be removed by others in a separate contract.

2.6 Additive Bid Item 0006:

2.6.1 Contractor shall patch holes made during demolition and tuckpoint all coping on buildings and any loose brick under the coping.

2.6.2 Contractor shall replace five (5) sets of concrete steps, cut, clean, patch, repair and seal cracks and deteriorated concrete on deck.

3. EXISTING CONDITIONS: Contractors are advised to inspect the site prior to submitting their bids. The Contractor shall be responsible for determining existing conditions, verifying quantities and evaluation of all other factors that influence the accomplishment of the work.

4. SEQUENCE OF WORK:

4.1 The buildings concerned in this project are Government owned. They will not be in use during the progress of the work.

4.2 This facility will not be in use on a daily basis throughout the period of this contract. However, the Contractor shall limit his hours of operation to normal business hours which are during the weekdays from 7:00 A.M. to 3:30 P.M., Monday through Friday. A complete clean-up of the contract area shall be accomplished each Friday.

4.3 The Contractor shall be responsible for coordination with Mr. James Rakers. All work shall be scheduled with Mr. Jim Rakers 48 hours in advance stating the day and the time at which the Contractor desires access to the buildings.

4.4 The Contractor shall take all possible precautions to leave the work site at the end of the working day in a condition that will prevent damage or injury to personnel or property, Government or otherwise. The above precautions shall include protection from the elements of weather.

5. WORK SCHEDULE: The Contractor shall furnish the Contracting Officer a schedule of his work, stating the dates he intends to start and an estimated date of completion for the contract.

6. FIELD MEASUREMENTS: The Contractor shall verify all work requirements, descriptions, dimensions, and measurements specified in the contract.

7. DISPOSAL OF MATERIALS: Unless otherwise stated, all materials not reused in the project will be disposed of by the Contractor at an approved sanitary landfill in accordance with

SECTION 02050, DEMOLITION of this contract.

8. RESTORATION: Any damage done by the Contractor to Government property outside the limits of this project shall be restored by the Contractor at no additional cost to the Government.

9. APPLICABLE PUBLICATIONS: All industry specifications and standards, Federal Specifications, Military Standards, and publications incorporated by reference in this solicitation are of the latest edition.

SECTION 01300

SUBMITTALS

1. GENERAL: All items of equipment and/or materials that are defined or described by a major paragraph in the specifications and the drawings, require submission in accordance with this paragraph. Brochures, samples, certificates of compliance, test reports, or shop drawings, as applicable, shall be submitted by the Contractor to the Contracting Officer, and approval given by the Contracting Officer before any equipment or material is installed under this contract.

1.1 Approval of materials and equipment will be withheld until all of the required information has been submitted to the Contracting Officer. All submissions must be in sufficient detail to adequately determine that the item will meet the requirements of this specification.

1.2 All submittals shall be transmitted to the Contracting Officer for review on Engineer Form 4025 in quadruplicate. The forms shall be completed as directed and no submittal will be accepted unless it is on the subject form. The forms will be furnished to the Contractor by the Government. All attachments to the transmittal form, such as catalog cuts, brochures, certifications, etc., shall be submitted in four (4) copies.

2. MATERIAL APPROVAL SUBMITTALS:

2.1 The following list of materials will require approval; under the Contract Clause, FAR 52.236-5, titled Material and Workmanship. The required dates for the material submittals will be provided to the Contractor at the preconstruction conference. The Contractor shall not proceed with any work using materials which are subject to approval, until materials are approved.

2.2 Material requiring approval include, but are not necessarily limited to the following:

<u>SECTION</u>	<u>ITEM FOR SUBMITTAL</u>
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<u>CONSTRUCTION MATERIALS REQUIRING SUBMITTALS:</u>	
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<u>SECTION</u>	<u>ITEM REQUIRING SUBMITTALS</u>	<u>SUBMIT</u>
01010	Door Glass Guard	Anchor Data and Installation Details
03300	Concrete Patch Material	Manufacture Data and Applying Instructions

03300	Concrete	Mix Design
06100	Wood Products	Manufacture Data
07311	Shingles	Manufacture Data
07311	Asphalt Felt	Manufacture Data
07311	Turbine and Accessories	Manufacture Data
07311	Flashing Plan	Contractors Plan
07600	Gutter and Downspouts	Manufacture Data
07600	Aluminum Fascia	Manufacture Data
08100	Steel Doors and Frames	Manufacture Data and Shop Drawings
08520	Aluminum Windows	Samples and Shop Drawings
08520	Door and Window Glass Guards	Anchors and Shop Drawings
09900	Paint	Manufacture Data and Test Reports

SECTION 02050

DEMOLITION

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS: The work includes demolition or removal of all construction indicated or specified. All materials resulting from demolition work, except as indicated or specified otherwise, shall become the property of the Contractor and shall be removed from the limits of Government property. Materials that cannot be removed daily shall be stored in areas specified by the Contracting Officer.

1.2 DUST CONTROL: The amount of dust resulting from demolition shall be controlled to prevent the spread of dust to avoid creation of a nuisance in the surrounding area. Use of water will not be permitted when it will result in, or create, hazardous or objectionable conditions such as ice, flooding and pollution.

1.3 PROTECTION:

1.3.1 Protection of Existing Work: Before beginning any cutting or demolition work, the Contractor shall carefully survey the existing work and examine the drawings and specifications to determine the extent of the work. The Contractor shall take all necessary precautions to insure against damage to existing work to remain in place, or to be reused, and any damage to such work shall be repaired or replaced as approved by the Contracting Officer at no additional cost to the Government. The Contractor shall insure that structural elements are not overloaded and be responsible for increasing structural supports or adding new supports as may be required as a result of any cutting, removal, or demolition work performed under any part of this Contract.

1.3.2 Protection of Buildings from the Weather: The interior of the building and all materials and equipment shall be protected from the weather at all times.

1.4 BURNING: The use of burning at the project site shall not be permitted.

1.5 USE OF EXPLOSIVES: Use of explosives shall not be permitted.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 UTILITY SERVICES: Disconnections of utility services have been made, related meters, conduit, interior and exterior lighting, wiring and equipment, shall be removed.

3.2 FILLING AND PATCHING: Holes, falling brick, loose coping, concrete, and mortar joints and other items listed on Contract Drawing Schedules shall be filled and patched.

3.3 DISPOSITION OF MATERIAL:

3.3.1 Title to Materials: Title to all materials and equipment to be demolished, is vested in the Contractor upon receipt of notice to proceed. The Government will not be responsible for the condition, loss or damage to such property after notice to proceed.

3.3.2 Material for Contractor Salvage: Material for salvage shall be stored as approved by the Contracting Officer. Salvage materials shall be removed from Government property before completion of the Contract. Material for salvage shall not be sold on the site.

3.3.3 Unsalvageable Materials: Unsalvageable materials shall be properly disposed of in a sanitary landfill in accordance with state, federal and local regulations.

3.4 CLEAN-UP:

3.4.1 Debris and Rubbish: Debris and rubbish shall be removed from tunnel area, warehouse buildings, and surrounding grounds.

3.4.2 Debris Control: Debris shall be removed and transported in a manner as to prevent spillage on streets or adjacent areas.

3.4.3 Regulations: Local, state, and federal regulations regarding hauling and disposal apply.

SECTION 03300

CONCRETE FOR CONSTRUCTION (MINOR REQUIREMENTS)

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 American Concrete Institute (ACI) Standards:

318-77 (1980 Suppl)	Building Code Requirements for Reinforced Concrete
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SP-66	ACI Detailing Manual - 1980
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1.1.2 American Society for Testing and Materials (ASTM)
Publication:

C 94-83	Ready-Mixed Concrete
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1.1.3 Federal Specifications (Fed. Spec.):

SS-S-1401C	Sealant, Joint, Non-Jet-Fuel-Resistant, Hot Applied, for Portland Cement and Asphalt Concrete Pavements.
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1.2 GENERAL: The work shall be in conformance with ACI 318, part entitled "Construction Requirements", except as specified herein. Concrete shall conform to ASTM C 94.

1.3 STORAGE: Materials shall be stored so as not to deteriorate or become contaminated.

PART 2 - PRODUCTS

2.1 MATERIALS:

2.1.1 Abrasive Aggregate: Abrasive aggregate shall be aluminum oxide, emery, or silicon-carbide abrasive. Size shall be 5/8 inch minus stone.

2.1.2 Concrete Materials: Concrete materials shall conform to ASTM C 94, cement type optional. Only one brand of any one type of cement shall be used for exposed concrete surfaces of any individual structure.

2.1.3 Curing Materials: Curing materials shall be impervious sheet or membrane-forming curing compound. Impervious sheet shall be white opaque polyethylene 4 mil thick, waterproof kraft paper, or polyethylene-coated burlap. Membrane-forming curing compound shall be of commercial formulation, sprayable, nontoxic, and will form a film highly resistant to moisture loss from concrete while curing and will dry within 4 hours. Compound shall be clear with fugitive dye, resin-base or chlorinated-rubber-base-type.

2.1.4 Expansion Joint Filler Strips, Premolded: Expansion joint strips shall be nonextruding, resilient bituminous or nonbituminous type commercially used in concrete paving or construction, 3/4-inch thick.

2.1.5 Concrete Patch Material: Concrete patch material shall be Master Builders Masterpatch 20 or approved equal. Patch material shall bond to existing concrete and produce 3,000 p.s.i. in less than 24 hours.

2.1.6 Joint Sealant: Joint sealant shall be hot-applied, made specifically for sealing joints in concrete against moisture infiltration. Sealant shall conform to Fed. Spec. SS-S-1401C.

2.1.7 Bonding Agents: Bonding agent shall be two-component, liquid epoxy designed for application in warm environment. Bonding agent shall be Master Builders Concrecive Liquid (LPL) or approved equal.

PART 3 - EXECUTION

3.1 CONCRETE QUALITY: Proportioning of concrete mixes to meet the requirements specified below shall be the Contractor's responsibility.

3.1.1 Compressive Strength: Compressive strength in 28 days shall be 3000 psi. The compressive strength shall be reached in 7 days when high-early-strength cement is used. Test results shall be furnished to the Contracting Office.

3.1.2 Entrained-Air Content: Entrained-air content of exterior concrete shall be maintained at 5 to 7 percent by volume of concrete.

3.1.3 Slump: Slump shall be 2 to 3 inches.

3.2 JOINTS:

3.2.1 Expansion Joint Filler: Expansion joint filler shall be installed at the proper level below the finished slab with a

wood strip temporarily secured to the top thereof to form a groove not less than 3/4-inch deep. The wood strip shall be removed after the concrete has set and the groove filled with joint sealant so as to be slightly concave after drying.

3.3 PLACING: Concrete slabs shall be placed upon clean undisturbed surfaces free from frost, ice, and water. Dry or pervious surfaces receiving concrete shall be covered with impervious sheet materials. Concrete shall be protected from freezing.

3.3.1 Bonding Agent: Bonding agent shall be applied as per manufacturers recommendations to bond new concrete to existing concrete.

3.4 CONSOLIDATION OF CONCRETE: Immediately after placing, concrete shall be consolidated by hand tamping. The tampers shall at all times be adequate in effectiveness and number to properly consolidate the concrete.

3.5 SLABS ON GRADE: Concrete shall be compacted, screeded to grade, and prepared for the specified finish. Joints in permanently exposed slabs shall be filled with joint sealant.

3.5.1 Construction Joints: Construction joints shall be saw cut and a depth of one inch, or finished with an edging tool having 1/8-inch radius.

3.5.2 Sealing Construction and Expansion Joints: Sealing expansion joints in slabs shall be filled with Fed. Spec. SS-S-1401 joint sealant. Joint sealant shall be applied as recommended by the manufacturer of the sealant. All joints shall be completely filled with sealer, which shall be well bonded to the concrete and free from voids.

3.6 Concrete Patching Material: Concrete patching material shall be installed per manufacturers recommendations.

3.7 CONCRETE SLAB FINISHES: Slab shall be finished to a true plane with no deviation exceeding 1/8 inch when tested with a 10-foot straightedge. Surfaces shall be screeded and floated to the required finish level with no coarse aggregate visible before finishing as specified below.

3.7.1 Finish: Finish shall be smooth trowel finish.

3.8 CURING shall start as soon as free water has disappeared from concrete surfaces after placing and finishing. Curing materials shall be applied and maintained so as to protect the concrete from moisture loss for 7 days. Curing shall be accomplished by impervious sheet or membrane-forming curing compound. Concrete surfaces shall be thoroughly wetted before

covering with impervious-sheet materials. Membrane-forming curing compound shall be applied with mechanical spraying equipment at a coverage of not more than 300 square feet per gallon. Surfaces damaged during curing shall be resprayed.

SECTION 06100

ROUGH CARPENTRY

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 U. S. Department of Commerce, National Bureau of Standards, Product Standards (Prod. Std.):

PS 20-70
Amended 1986

American Softwood Lumber Standard

1.1.2 American Wood Preservers Bureau (AWPB) Standards:

LP-2-80
(Rev Mar 1980)

Softwood Lumber, Timber and Plywood
Pressure Treated with Water-Borne
Preservatives for Above Ground Use

LP-22-80
(Rev Mar 1980)

Softwood Lumber, Timber and Plywood
Pressure Treated with Water-Borne
Preservatives for Ground Contact
Use

1.1.3 National Forest Products Associations (NFPA)
Publications:

Manual for House Framing (1961)

1.2 GENERAL REQUIREMENTS:

1.2.1 Grading and Marking: Materials shall bear the grademark, stamp or other identifying marks indicating grades of material and rules or standards under which produced.

1.2.2 Sizes: Lumber sizes shall conform to Prod. Std. PS 20, and unless otherwise specified, lumber shall be surfaced on four sides.

1.2.3 Moisture Content: At the time lumber and other materials are delivered and when installed in the work their moisture content shall be as follows:

1.2.4 Treated and Untreated Lumber 2 Inches or Less in Thickness, Except Roof Planking: 19 percent maximum.

1.2.5 Treated and Untreated Lumber Over 2 Inches in Thickness, Except Roof Planking: 25 percent maximum.

1.2.6 Roof Planking 2 Inches or More in Thickness: 15 percent maximum.

1.3 DELIVERY AND STORAGE: Materials shall be delivered to the site in undamaged condition, stored in fully covered, well ventilated areas, and protected from extreme changes in temperature and humidity.

PART 2 - PRODUCTS

2.1 MATERIALS: Provide and install all rough hardware and metal fastenings as indicated or required for proper installation of carpentry. Nails, spikes, screws, bolts and similar items shall be of sizes and types required to rigidly secure members in place and support imposed loads. Galvanized hardware in exterior locations and other locations where subject to moisture.

2.1.1 Structural and Miscellaneous Wood Members:

2.1.1.1 Wood: Size and species shall match existing members as closely as practicable.

2.2 PRESERVATIVE TREATMENT: Lumber not over 5 inches thick shall be pressure preservative treated in accordance with, AWPB LP-2 or LP-22; Wood treated with water-borne preservatives shall be air-dried or kiln-dried to the moisture content specified for lumber and marked with the word "Dry". Creosote or coal-tar solutions shall not be used. All wood members used for fascia board and framing of openings in exterior concrete or masonry walls shall be treated.

PART 3 - EXECUTION

3.1 INSTALLATION OF FRAMING AND MISCELLANEOUS WOOD MEMBERS:

3.1.1 General: Members shall be closely fitted, accurately set to required lines and levels, and rigidly secured in place. Nailing shall be in accordance with the Recommended Nailing Schedule as contained in NFPA Manual for House Framing. Rafters, purlins, and joists shall be set with crown edge up.

3.1.2 Ceiling Framing: Ceiling Framing shall match existing construction.

3.1.3 Roof Framing or Rafters: Match existing construction.

3.1.4 Bridging: Match existing construction.

3.1.5 Blocking: Blocking shall be provided as necessary for application of sheathing, subflooring, wallboard, and other materials or building items. Blocking shall be cut to fit

between framing members and rigidly nailed thereto.

3.1.6 Nailers and Nailing Strips: Nailers and nailing strips shall be provided as necessary for the attachment of finish materials. Nailers used in conjunction with roof deck installation shall be installed flush with the roof deck system. Strips shall be run in lengths as long as practicable, butt jointed, cut into wood framing members when necessary, and rigidly secured in place.

3.1.7 Roof Decking: Roof decking shall match existing construction. Roof decking shall have end joints made over supports, and end joints staggered.

3.2 INSTALLATION OF SHEATHING:

3.2.1 Wood Sheathing: Sheathing end joints shall be made over framing members and so alternated that there will be at least two boards between joints on the same support. Each board shall bear on at least three supports. Boards shall be nailed at each support using two nails for boards 8 inches and less in width and three nails for boards more than 8 inches in width.

SECTION 07311

ROOFING, STRIP SHINGLES

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 American Society for Testing and Materials (ASTM) Publication:

D 226-88	Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing
D 3018-82	Class A Asphalt Shingles Surfaced with Mineral Granules
D 3462-87	Asphalt Shingles made from Glass Felt and Surfaced with Mineral Granules

1.1.2 Underwriters Laboratories, Inc. (UL) Publications:

UL 997	Wind Resistance of Prepared Roof Covering Materials (28 Apr 86)
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1.2 DELIVERY AND STORAGE OF MATERIALS: Materials shall be delivered in manufacturer's unopened bundles and containers with the manufacturer's brand and name marked clearly thereon. Shingles shall be stored in accordance with manufacturer's printed instructions. Roll goods shall be stored on end in an upright position. Immediately before laying, roofing felt shall be stored for 24 hours in an area maintained at a temperature not lower than 50 degrees F.

PART 2 - PRODUCTS

2.1 MATERIALS shall conform to the following requirements:

2.1.1 Asphalt-Saturated-Felt Underlayment: ASTM D 226, Type I (No. 15).

2.1.2 Nails: In accordance with manufacturer's printed instructions.

2.1.3 Shingles: Shingles shall be glass felt type meeting the requirements of ASTM D 3018, ASTM D 3462, and UL 997. Shingles shall be approximately 12 by 36 inches in dimension and 3-tab design. Color of shingles shall be as selected from the

manufacturer's standard colors. Glass felt shingles shall be Type I, weighing not less than 215 pounds per square.

2.1.4 Rotary Ventilators: Ventilators shall be hard chrome plated, ball bearing with adjustable base for 0/12 to 7/12 pitched roof. Ventilator shall have 12 inch diameter throat, 18 inch diameter turbine with external bracing.

2.1.5 Rotary Ventilator Automatic Dampers: Damper shall fit inside 12 inch turbine base and open fully at 90 degrees F. and closes fully at 50 degrees F.

PART 3 - EXECUTION

3.1 PREPARATION:

3.1.1 Carefully inspect decks where shingle roofing is to be installed. Notify the Contracting Officer of any conditions that would adversely affect the installation, subsequent weather-tightness, or warranty. Do not proceed with installation until unsatisfactory conditions are corrected.

3.1.2 Assure that substrate are uniform, sound, smooth, clean, dry, and free from irregularities.

3.2 UNDERLAYMENT:

3.2.1 Edge Strips: Fasten metal edge strips along bottom edge (eaves) before felt is applied, and to the sides (rakes) after felt is applied.

3.2.2 Steep Decks: 4/12 slope or greater.

3.2.2.1 Lay one layer of felt horizontally over the entire roof lapping each course at least 2" over lower course with at least 4" side laps at end joints. Lap felt at least 6" from both sides at hips, ridges, and valleys.

3.2.2.2 Secure felt in place with sufficient fasteners to hold felt in place until shingles are applied.

3.2.2.3 At gutters or other locations where ice may form along eaves and cause leaks from water back-up, apply an eave flashing strip of heavy roll-roofing over felt underlayment. Flashing strip shall overhang drip edge 1/4" and extend to a point at least 12" inside the interior wall line of the building. Horizontal laps in flashing strip shall occur outside of the wall line.

3.3 FLASHING:

3.3.1 Install metal flashing at all intersections of roofs

and adjoining walls and all projections through the roof including, but not limited to piping, and conduit.

3.3.2 Install flashing in strict accordance with the shingle manufacturer's recommendations for the particular application to match existing flashing. Contractor shall submit flashing plan for approval.

3.4 SHINGLES:

3.4.1 Install shingles in strict accordance with the manufacturer's installation instructions to form a pattern where cut-outs break joints on halves, or where cut-outs are centered over the tabs in the course below.

3.4.1.1 Cut-outs shall not occur over a cut-out in the row immediately below.

3.4.1.2 Do not install any shingle that is torn, defaced, or otherwise defective.

3.5 Turbine Ventilator: Install as per roofing and ventilator manufacture recommendations.

3.6 REPAIR AND CLEAN-UP:

3.6.1 Upon completion of roofing, replace any damaged shingles with new, undamaged shingles.

3.6.2 Clean adjoining surfaces which have been soiled by cements or adhesives. Clean up excess roofing materials and debris, and remove from the project site.

SECTION 07600

SHEET METALWORK, GENERAL

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

1.1.1 American Society for Testing and Materials (ASTM) Publications:

B 209-88	Aluminum and Aluminum-Alloy Sheet and Plate
B 221-88	Aluminum and Aluminum-Alloy Extruded Bar, Rod, Wire, Shape, and Tube
B 370-84a	Copper Sheet and Strip for Building Construction

1.1.2 Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) Publication:

Architectural Sheet Metal Manual (3rd Ed., Aug 1979)

1.2 GENERAL REQUIREMENTS: Sheet metalwork shall be accomplished to form weathertight construction. Work shall be installed without waves, warps, buckles, fastening stresses or distortion and shall allow for expansion and contraction. Exposed edges shall be hemmed. Bottom edges of exposed vertical surfaces shall be angled to form drips. Flashing at the end of a run shall be formed into a three dimensional configuration to direct water to the outside of the system. Joints shall be installed as specified in Table 3. Accessories and other items essential to complete the sheet metal installation, though not specifically indicated or specified, shall be provided.

1.3 SUBMITTALS:

1.3.1 Shop Drawings: Shop drawings shall be submitted for approval in accordance with the SECTION 01300, SUBMITTALS. Drawings shall show weights, gages, or thickness of sheet metal; type of material; joining, expansion-joint spacing, and fabrication details; and installation procedures.

PART 2 - PRODUCTS

2.1 Materials shall conform to the requirements specified below, and those given in Table 1.

2.1.1 Aluminum Extrusions: ASTM B 221, Alloy 6063, Temper T5.

2.1.2 Fasteners: Materials shall conform to Table 2. Fasteners shall be the best type for the application.

2.1.3 Plastic Hardsetting Sealant: As recommended by aluminum manufacturer.

2.1.4 Sheet Metal:

2.1.4.1 Aluminum Alloy Sheet and Plate: ASTM B 209, form, alloy, and temper appropriate for use. Epoxy primed baked on enamel finish.

2.1.4.2 Copper: ASTM B 370, Temper 401.

2.1.5 MISCELLANEOUS SHEET METAL: Provide sheet metal items not covered elsewhere as required to produce a watertight installation and comply with the roofing manufacturer's warranty requirements. All work shall comply with the recommendations of the SMACNA Manual for the conditions involved.

PART 3 - EXECUTION

3.1 FABRICATION AND INSTALLATION:

3.1.1 Fabricate and install sheet metal items to conform to the recommendations of the Association of Sheet Metal Contractors as set forth in the SMACNA Manual. Installations shall be water and weathertight in all respects and shall be designed to allow for expansion and contraction without damage to the assembly.

3.1.2 Effectively isolate dissimilar metals where necessary to prevent corrosion by electrolytic action or other causes.

3.2 PROTECTION OF ALUMINUM: Aluminum shall not be used where it will be in contact with copper.

3.3 SOLDERING, RIVETING, SEAMING, AND SEALING:

3.3.1 Riveting and Sealing: Joints in aluminum sheets 0.040 inch or less in thickness shall be made mechanically and sealed.

3.3.2 Seams: Seams shall conform to the following requirements:

3.3.3 Flat-lock seams shall finish not less than 1-inch wide.

3.3.4 Soldered-lap seams shall finish not less than 1-inch wide.

3.3.5 Unsoldered plain-lap seams shall lap not less than 3 inches unless otherwise specified.

3.3.6 Flat seams shall be made in the direction of the flow.

3.4 Downspouts shall be set plumb and not less than 1 inch from the wall. Leaders shall connect gutters on overhanging eaves to downspouts. Leaders shall be set with a slope not less than 1/16-inch per foot. Strainers shall be set loosely in the eave tube opening in gutter. Joints between lengths of downspouts shall be made by telescoping the end of the upper lengths at least 3/4 inch into the lower length. Downspouts terminating at splash blocks or splash pans shall be provided with stock elbow-type fittings. Downspout hangers shall be provided adjacent to the joint at the top of each section of downspout except that the bottom section shall have an additional strap adjacent to the bottom joint. Hangers shall be 1/16- by 1-inch flat stock of the same material as the downspout.

3.5 Expansion Joints shall be provided at 32-foot intervals for aluminum, except that where the distance between the last expansion joint and the end of the continuous run is more than half the required interval spacing an additional joint shall be provided. Joints shall be evenly spaced. Extruded aluminum fascia shall have expansion joints at not more than 12-foot spacing.

3.6 Flashings and Counterflashing shall be fabricated from materials to match existing materials and construction as closely as possible.

3.6.1 Stepped Flashing: Stepped flashing shall be installed to match existing materials and construction as closely as possible.

3.7 Gutters shall terminate at least 1/2 inch away from vertical surfaces. Gutter brackets and spacers shall be fastened to roof nailer by screws or deformed shank-type nails and shall interlock with or be fastened to the leading edge of gutter. Gutter spacers shall be 1/16-inch by 1-inch flat-stock of the same material as the gutter. Brackets and spacers shall be alternated at not more than 36 inches on centers. Gutters shall be hung

with high points at ends or equal distant from downspouts and shall have a slope of not less than 1/16 inch per foot.

3.8 CLEANING:

3.8.1 Aluminum: At completion, clean with non-alkali soap and water; rinse with clean water.

TABLE 1. SHEET METAL WEIGHTS, THICKNESSES, AND GAGES

<u>Item Description</u>	<u>Copper, Ounce Per Square Foot</u>	<u>Aluminum, Inch</u>	<u>Stainless Steel, Inch</u>
<u>EXPOSED SHEET METAL:</u>			
Downspouts, heads and leaders.....	----	.032	----
Fasciae:			
Extrusions.....	----	.075	----
Sheets, smooth.....	----	.050	----
Gutters (girth):			
Up to 15 inches.....	----	.025	----
15 to 20 inches.....	----	.032	----
Gutter brackets (girth):			
Up to 15 inches.....	----	3/16"x1"	----
15 to 20 inches.....	----	1/4" x1"	----

TABLE 2. FASTENER MATERIALS

To prevent corrosion, the indicated fastener materials shall be used with the following sheet metals:

<u>Sheet Metal</u>	<u>Nails</u>	<u>Screws</u>	<u>Rivets</u>	<u>Nuts & Bolts</u>
Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Copper	Copper	Bronze	Copper	Bronze

TABLE 3. SHEET METAL JOINTS

Item <u>Designation</u>	<u>Type of Joint</u>		<u>Remarks</u>
	Copper, Copper Clad Stainless Steel, <u>Stainless Steel</u>	<u>Aluminum</u>	
Building expansion joint at roof	1-1/4 inch single lock standing seam, cleated.	1-1/4 inch single standing seam, cleated.	-----
Sheet, smooth	Butt with 1/4- inch space.	Butt with 1/4-inch space.	Use 6-inch cover plate.
Gutters	1-1/2 inch lap, riveted and soldered.	1-inch flat locked, riveted, and sealed.	Use hard setting sealant for locked aluminum joints.

SECTION 08100

STEEL DOORS AND FRAMES

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

1.1.1 Door and Hardware Institute (DHI) Publication:

The Installation of Commercial Steel Doors and Steel Frames, Insulated Steel Doors in Wood Frames, and Builders Hardware, (1977)

1.1.2 Steel Door Institute (SDI) Specification:

106-66 Recommended Door Type Nomenclature

107-84 Hardware on Steel Doors 2

1.2 SUBMITTALS:

1.2.1 Shop Drawings: Shop drawings shall be submitted for approval in accordance with the specifications. Shop drawings shall use standard door type nomenclature in accordance with SDI 106 and shall indicate details of construction, location and extent of hardware reinforcement, hardware locations, and thicknesses of metal. Shop drawings shall include catalog cuts or descriptive data for the weatherstripping.

1.3 DELIVERY AND STORAGE: The Contractor shall provide protection for all materials during shipment. Materials shall be delivered to the site in undamaged condition, and stored out of contact with the ground and under a weathertight covering permitting good air circulation. Doors shall be stored in an upright position. Whenever damage becomes evident, abraded, scarred, or rusty areas shall be cleaned and touched up with the paint used for the shop painting.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS FOR DOORS: Doors shall be factory fabricated heavy duty doors, match the existing doors to be removed as closely as possible and the additional requirements specified herein.

2.1.1 Doors: Doors shall be prepared to receive hardware conforming to the templates and information provided in the hardware schedule at the end of this section.

2.1.2 Weatherstripping: Weatherstripping for head and jamb protection shall be an elastomeric type of synthetic rubber, vinyl, or neoprene standard with the manufacturer of the door. The weatherstripping shall be installed on the jobsite in accordance with the door frame manufacturer's recommendations. Weatherstripping for bottom of doors shall be of the mounted sweep type consisting of 1/8-inch thick neoprene or spring tension type of bronze or corrosion-resisting steel on an extruded aluminum or bronze bar. Spring bronze shall be not less than 0.008-inch thick and corrosion-resisting steel not less than 0.005-inch thick.

2.1.3 Closed Top Edges: Exterior doors shall have top edges closed flush and sealed against water penetration.

PART 3 - EXECUTION

3.1 INSTALLATION shall conform to DHI publication The Installation of Commercial Steel Doors and Steel Frames, and Builders Hardware. Steel doors shall be reinforced, drilled, and tapped to receive mortise hinges, locks, and latches, as required. Preparation for hardware shall be in accordance with SDI 107. Weatherstripping shall be installed at exterior door openings to provide a weathertight installation.

HARDWARE SCHEDULE

Tunnel doors shall receive:

1 pair	Hinges, A8112
1 each	Mortise Deadlock, E16091
1 each	Door Pull, The Grip shall be tapped to receive thru bolts.
4 each	Keys to deadlock.

SECTION 08520

ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS:

1.1.1 Aluminum Windows Applicable Publications: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1.1 American Architectural Manufacturers Association (AAMA) Publications:

101-1985	Voluntary Specifications for Aluminum Prime Windows
603.8-1985	Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum

1.1.1.2 Aluminum Society for Testing Materials:

A 386-78	Zinc Coating (Hot-Dip) on Assembled Steel Products
C 236-80	Steady-State Thermal Performance by Means of a Guarded Hot Box
C 509-84	Cellular Elastomeric Preformed Gasket and Sealing Material
C 920-79	Elastomeric Joint Sealants
D2000-80	Rubber Products in Automotive Applications
D2287-81	Nonrigid Vinyl Chloride Polymer and Copolymer Molding and Extrusion Compounds
E 283-84	Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors

E 330-84 Structural Performance of
Exterior Windows, Curtain
Walls, and Doors by Uniform
Static Air Pressure Difference

E 331-83 Water Penetration of Exterior
Windows, Curtain Walls, and
Doors by Uniform Static Air
Pressure Difference

1.1.1.3 Aluminum Association (AA) Publication:

Designation System for Aluminum Finishes
(Seventh Edition September 1980)

1.1.1.4 Federal Specifications (Fed. Spec.):

DD-G-451D Glass, Float or Plate, Sheet,
Figured (Flat, for Glazing,
Mirrors and Other Uses)

RR-W-365 Wire Fabric (Insect Screening)
& Am-1

TT-S-1543A Sealing Compound: Silicone
(COM-NBS) Rubber Base (For Caulking,
Sealing and Glazing in
Buildings and Other
Structures)

TT-E-508C Enamel, Interior, Semigloss,
& Am - 1 Tints and White

TT-E-543A Enamel, Interior, Undercoat,
& Am - 1 Tints and White

1.2 Applications for aluminum windows on project include the following:

1.2.1 Individual units set in cinder block wall construction.

1.2.2 Glazing: Window units are to be factory preglazed.

1.3 DESCRIPTION OF WORK: Type of aluminum window units shall be Horizontal sliding windows.

1.4 SYSTEM DESCRIPTION:

1.4.1 Approximate sizes shall be as shown on the drawings and shall meet current AAMA specifications for HS-HC55.

1.5 Performance and Testing:

1.5.1 General: Except as otherwise indicated, comply with air infiltration tests, water resistance tests, uniform load deflection tests, and uniform load structural tests specified in ANSI/AAMA 101-85 for type and classification of window units required.

1.5.2 Structural: Provide units which have been tested for strength as specified in ASTM E330, HS-HC55.

1.5.3 Water Penetration: Provide aluminum window units which have been certified to have no water penetration when tested in accordance with ASTM E331 at a test of 8 psf, except as modified herein.

1.5.4 Condensation Resistance: Where window units are indicated to be of "thermal break construction", provide units which have been tested for thermal performance showing a condensation resistance factor (CRF) of at least 52.

1.5.5 Infiltration Requirements: Provide construction tolerances and weatherstripping, as necessary for ASTM E283 to reduce air infiltration test results for operable sash to .07 cu. ft. per minute per ft. of crack length, except as modified herein.

1.5.6 Thermal Transmittance: Provide units which have been tested for thermal performance, ASTM C236 with a "U" value of .63 BTU/HR/FTL/F or less.

1.5.7 IGCC-CBA Test Reports: All insulated glass units shall be tested, certified and carry the respective IGCC-CBA level certification number on the glass spacer.

1.6 QUALITY ASSURANCE:

1.6.1 Design Criteria: Drawings indicate approximate sizes, vent or sash operation, and dimensional requirements of aluminum windows. Window units having minor deviations from dimensions indicated on drawings may be accepted, provided such deviations do not materially detract from concept or intended performances and subject to approval of the Contracting Officer.

1.7 SUBMITTALS:

1.7.1 Product Data: Submit manufacturer's technical product data, recommendations and standard details for aluminum window units, including Certified test laboratory reports.

1.7.2 Information Drawings: Four sets of drawings shall be submitted for information only. Information drawings shall

include, full size sections, thicknesses of metal, fastenings, methods of installation and anchorage, method of glazing, locations of operating hardware, mullion details, method and material for weatherstripping, method of attaching screens, details of installation, connections with other work and window schedules showing location of each window unit.

1.7.3 Window Guard and Mounting Anchor: Submit four sets of drawings on installation of window guards. Submit anchor product information for installing guards.

1.8 GUARANTEE: Insulating glass units shall be guaranteed by the manufacturer not to develop material obstruction to vision as a result of dust or film formation on the inner glass surfaces caused by failure of the hermetic seal, other than through glass breakage, within a 10-year period following installation.

PART 2 - PRODUCTS

2.1 MATERIALS:

2.1.1 Aluminum Extrusions: Alloy and temper recommended by window manufacturer for strength, corrosion resistance and application of required finish, but not less than 22,000 psi ultimate tensile strength and not less than 0.062" thickness at any location for main frame and sash members. The sill section shall be .078".

2.1.2 Fasteners: Aluminum, non-magnetic stainless steel or other materials warranted by manufacturer to be non-corrosive and compatible with aluminum window members, trim, hardware, anchors and other components of window units.

2.1.3 Reinforcement: Where fasteners screw-anchor into aluminum less than 0.125" thick, reinforce interior with aluminum or non-magnetic stainless steel to receive screw threads, or provide standard non-corrosive pressed-in splined grommet nuts.

2.1.3.1 Do not use exposed fasteners except where unavoidable for application of hardware. Match finish of adjoining metal.

2.1.3.2 Provide Phillips flat-head machine screws for exposed fasteners.

2.1.4 Anchors, Clips and Window Accessories: Fabricate units of aluminum, non-magnetic stainless steel, or hot-dip zinc coated steel or iron complying with ASTM A 386.

2.1.5 Compression Glazing Strips and Weatherstripping: At manufacturer's option, provide molded neoprene gaskets complying with ASTM D 2000. Designation 2BD415 to 3BC620, or molded PVC

gaskets complying with ASTM D 2287, or molded expanded neoprene gaskets complying with ASTM C 509, Grade 4.

2.1.6 Sliding Weatherstripping: Provide woven pile weatherstripping of wool, polypropylene or nylon pile and resin-impregnated backing fabric, and aluminum backing strip.

2.1.7 Sealant: Unless otherwise indicated for sealants required within fabricated window units, provide type recommended by window manufacturer for joint size and movement, to remain permanently elastic, non-shrinking and non-migrating.

2.1.8 Aluminum Screens (Insect): 18 x 14 mesh of aluminum threads, woven to form fabric mesh which is resistant to corrosion, shrinkage, stretch, impact damage and weather deterioration. Comply with Federal Specification RR-W-365.

2.1.9 Friction Shoes: Nylon or other non-abrasive, non-metallic, non-staining, non-corrosive durable material.

2.2 WINDOW TYPES (OPERATION): Horizontal sliding window units containing operable sashes, sliding on a minimum of two steel rollers housed in molded nylon adjustable housings. Each sash capable of bypassing each other for purposes of cleaning.

2.3 FABRICATION AND ACCESSORIES:

2.3.1 General: Provide manufacturer's standard fabrication and accessories, which comply with indicated standards, and are reglazable without dismantling of sash framing.

2.3.1.1 Thermal-Break Construction: Fabricate aluminum window units with an integrally concealed low conductance thermal barrier, located between exterior materials and window members exposed on interior, in manner which eliminates direct metal-to-metal contact. Provide manufacturer's standard construction which has been in use on similar window units for a period of not less than five years.

2.3.1.2 Frame and sill shall be mortise and joined with screw fasteners. All frame corners shall have an approved joint sealant applied to provide watertight corners. Sash meeting rail, latch rail, top width rail and bottom rail shall have an approved extruded foam section for reduction of cold transfer.

2.3.2 Preglazed Fabrication: Preglaze window units at factory where possible and practical for applications indicated. Comply with requirements of AAMA 101-1985. All sashes shall be marine glazed.

2.3.3 Groove Glazing: Preglazed units without removable

stops or other provisions permitting convenient field disassembly to facilitate replacement of broken glass will not be accepted.

2.3.4 Drainage: Provide means of drainage for water and condensation which may accumulate in members of window units. Frame sill shall contain weep provisions and be baffled for adequate drainage to the exterior.

2.3.5 Weatherstripping: Provide compression-type weatherstripping at perimeter of each operating sash, except provide sliding weatherstripping at all locations where sash rails slide horizontally along frame of units.

2.3.6 Sash: Sash meeting rails, latch rails, and frame sill shall be designed with double fin seal weatherstrip contact. Sash shall be easily removed from frame after unlocking for cleaning and reglazing purposes.

2.3.7 Screen and Window Guards: Provide full size insect screen units. Locate screen units on outside of sash. Design window units and hardware to accommodate screens in a tight-fitting removable arrangement, with a minimum of exposed fasteners and latches. Screens shall be required to have a locking pin installed.

2.3.7.1 Provide screen frames of extruded aluminum tubular-shaped members of .050 minimum wall thickness, with mitered or coped joints and concealed mechanical fasteners, with removable PVC spline-anchor concealing edge of screen fabric. Finish frames to match window unit, unless otherwise indicated.

2.3.7.2 Provide window guards on the outside of the window fabricated from 9 gauge wire mesh, equivalent or equal, and fastened in an approved method so the window guards can not be removed from the exterior of the building.

2.3.8 Glass and Glazing Materials:

2.3.8.1 Insulated Glass: Window manufacturer's standard clear 1/8" thick hermetically sealed insulating glass, minimum 3/8" dehydrated air space for a total of 5/8" minimum thickness. Spacers shall be stamped with the IGCC-CBA rating showing compliance with "A" rated I.G. units.

- a. Interior Glass: Clear float glass, FS DD-G-451, Type I, Quality q3.
- b. Exterior Glass: Clear float glass, FS DD-G-451, Type I, Quality q3.

2.3.8.2 Glazing Seal: Extruded vinyl or butyl glazing gasket providing weathertight seal.

2.4 MISCELLANEOUS MATERIALS:

2.4.1 Single-Component Silicon Rubber Sealant: Provide manufacturer's standard, non-modified, one-part, silicone-rubber-based, air curing, non-sag, elastomeric sealant; complying with either ASTM C 920 Type S Class 25 Grade NS, or FS TT-S-1543A Class A Type Non-sag.

2.4.2 Capping Material: Aluminum sheets of .024" thickness in finish to match windows. Material is to be bent and formed at jobsite to contours of existing window frames.

2.4.3 Window Glass Guards: Match existing guards and mount on exterior of window.

2.4.4 Window Glass Guard Anchors: Contractor shall submit anchors for approval

2.4.5 Batt Insulation: Glass fiber blankets of inorganic fibers formed into resilient flexible blankets to be inserted between new aluminum frames and existing construction to reduce air infiltration and thermal transfer.

2.4.6 Shims or Spacers: Provide shims or spacers on the building to mount or install window required for a complete and functional installation of the windows.

2.5 ALUMINUM WINDOW FINISHES:

2.5.1 Organic Coating: Provide organic coating of type and color indicated, tested and certified by window manufacturer to comply with AAMA 603.8, shop applied. Color shall be chestnut brown.

2.5.2 Coating: Provide manufacturer's standard acrylic or polyester, baked-on, electrostatically applied enamel coating of 1.5 mils dry film thickness, chestnut brown; applied over manufacturer's standard substrate preparation including chromate conversion coating.

PART 3 - EXECUTION

3.1 INSTALLATION:

3.1.1 Comply with manufacturer's specifications and recommendations for installation of window units, hardware, operations, and other components of work. Units shall be set without springing, forcing, or distorting. Head and sill shall be aligned parallel and squared with jambs. Sill shall be adequately supported along its entire length.

3.1.2 Set units plumb, level and true to line, without warp or rack of frames or sash. Anchor securely in place. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action.

3.1.3 Set units in full bed of sealant and seal all cracks at perimeter of window unit with sealant.

3.1.4 Entire window frame shall be surrounded and packed with batt insulation.

3.1.5 Window glass guard installation and product data on the anchor shall be submitted by Contractor for approval.

3.2 ADJUST AND CLEAN:

3.2.1 Adjust operating sash and hardware to provide a tight fit at contact points and at weatherstripping, and to ensure smooth operation and weathertight closure.

3.2.2 Clean aluminum surfaces promptly after installation of windows, exercising care to avoid damage of protective coatings and finishes. Remove excess glazing and sealant compounds, dirt and other substances. Lubricate hardware and moving parts.

3.2.3 Clean glass of preglazed units promptly after installation of windows.

3.2.4 Initiate and maintain all protection and other precautions required to ensure that window units will be without damage or deterioration (other than normal weathering) at time of acceptance.

3.3 PAINTING:

3.3.1 Window guards shall be primed and painted with one coat of primer and two coats of exterior semi-gloss paint 5 mils in thickness. Color shall be chestnut brown.

3.3.2 Application: Paint may be applied by brush, roller, or spray. Each coat of paint shall be applied so dry film shall be of uniform thickness and free from runs, drops, ridges, waves, pinholes, or other voids and provide complete hiding.

SECTION 09250

GYPSUM WALLBOARD

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 American Society for Testing and Materials (ASTM) Publications:

C 36-85	Gypsum Wallboard
C 475-81	Joint Treatment Materials for Gypsum Wallboard Construction
C 514-84	Nails for the Application of Gypsum Wallboard
C 840-84a	Application and Finishing of Gypsum Board

1.2 GENERAL REQUIREMENTS: Except where otherwise indicated or specified, the work shall conform to ASTM C 840.

1.3 DELIVERY AND STORAGE: Wallboard delivered prior to use shall be stored off the ground within a completely enclosed structure or completely enclosed within a weathertight covering. Wallboard shall be dry, free of warpage, and have bundling tape intact immediately prior to use. Application shall commence only after the structure is completely weathertight.

PART 2 - MATERIALS

2.1 MATERIALS shall conform to the requirements specified below. Miscellaneous items not otherwise specified shall be as recommended by the wallboard manufacturer and approved prior to use. The long edges of wallboard shall be tapered. Thickness of wallboard shall be 5/8 inch.

2.1.1 Gypsum Wallboard: ASTM C 36.

2.1.2 Regular: 48 inches wide.

2.1.3 Joint Treatment Materials: ASTM C 475.

2.1.4 Taping or Embedding Compound: Specifically formulated and manufactured for use in embedding tape at gypsum wallboard joints and fastener heads and completely compatible with tape and substrate.

2.1.5 Finishing or Topping Compound: Specifically formulated and manufactured for use as a finishing compound.

2.1.6 All-Purpose Compound: Specifically formulated and manufactured to serve as both a taping and a finishing compound and compatible with tape and substrate.

2.1.7 Joint Tape: Reinforcing tape recommended by the manufacturer.

2.1.8 Nails: ASTM C 514.

2.1.9 Cornerbead and Edge Trim: Corrosion protective-coated steel designed for its intended use. Flanges shall be free of dirt, grease, and other materials that may adversely affect the bond of joint treatment.

PART 3 - EXECUTION

3.1 CEILING OPENINGS: Support members shall be provided on ceiling openings such as required for access panels. Support members of not less than 1-1/2 inch main runner channels and vertically installed suspension wires or straps shall be located to provide at least the minimum support specified herein for furring and wallboard attachment. Intermediate structural members, although not a part of the structural system, shall be provided for attachment or suspension of support members.

3.2 APPLICATION OF GYPSUM WALLBOARD: Gypsum wallboard shall be applied to framing and furring members in accordance with ASTM C 840 and the requirements specified herein. Gypsum wallboard shall be applied with separate boards in moderate contact without forcing in place. End joints of adjoining boards shall be staggered. Abutting end and edge joints shall be neatly fitted. Use gypsum wallboard of maximum practical length. Gypsum wallboard shall be cut as required to make neat close joints around openings. Surfaces of gypsum wallboard and substrate members may be adhered together with an adhesive, except adhesive shall not be used in lieu of fasteners.

3.3 FINISHING OF GYPSUM WALLBOARD: Gypsum wallboard shall be taped and finished in accordance with ASTM C 840. Joint, fastener depression, and corner treatment shall be provided.

3.4 PATCHING: Surface defects and damage shall be corrected as required to leave gypsum wallboard smooth, uniform in appearance, and ready to receive finish as specified.

SECTION 09900
PAINTING, GENERAL
PART 1 - GENERAL

1.1 FEDERAL SPECIFICATIONS (FS):

FS TT-E-487 (Rev. E; Am. 1)	Enamel: Floor and Deck
FS TT-E-489 (Rev. G)	Enamel, Alkyd, Gloss (for Exterior and Interior Surfaces)
FS TT-E-508 (Rev. C; Am. 1)	Enamel, Interior, Undercoat, Tints and White
FS TT-E-509 (Rev. B; Am. 2)	Enamel, Odorless, Alkyd, Interior, Semigloss, White and Tints
FS TT-E-543 (Rev. A; Am. 1)	Enamel, Interior, Undercoat, Tints and White
FS TT-P-650 (Rev. C; Am. 1)	Primer Coating, Latex Base, Interior, White (for Gypsum Wallboard)

1.2 FEDERAL STANDARDS (FED-STD):

FED-STD 595	(Rev. A; Change Notices 2, 3, 4, 5, 7, 8, 9, & Errata) Colors
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1.3 DEFINITION: The term "paint" as used herein includes emulsions, enamels, paints, stains, varnishes, sealers, cement-emulsion filler, and other coatings, whether used as prime, intermediate, or finish coat.

1.4 SUBMITTALS:

1.2.1 The Contractor shall submit one (1) quart of each type of paint for approval in accordance with Section 01300, SUBMITTALS.

1.2.2 The Contractor shall submit for approval the names, quantity represented, and intended use for the proprietary brands of materials proposed to be substituted for the specified materials when the required quantity of a particular color is 50 gallons or less.

1.2.3 Manufacturer's current printed product description, materials safety and technical data sheets shall be furnished for all coating systems.

1.3 PACKAGING, LABELING, AND STORAGE: Paints shall be in sealed containers that legibly show the designated name, formula or specification number, batch number, color, quantity, date of manufacture, manufacturer's formulation number, manufacturer's directions including any warnings and special precautions, and name of manufacturer. Pigmented paints shall be furnished in containers not larger than 5 gallons. Emulsion paints shall be stored to prevent freezing.

1.4 COLORS AND TINTS: Colors shall conform to FED-STD 595 and shall be as selected. Tinting of vinyl-type paints shall be done by the manufacturer. The color of the undercoats shall vary slightly from the color of the next coat.

1.5 APPROVAL OF MATERIALS: When samples are tested, approval of materials will be based on tests of the samples; otherwise, materials will be approved based on test reports furnished with them. If materials are approved based on test reports furnished, samples will be retained by the Government for testing should the materials appear defective during or after application. In addition to any other remedies under the contract the cost of retesting defective materials will be at the Contractor's expense.

1.6 ENVIRONMENTAL CONDITIONS: Unless otherwise recommended by the paint manufacturer, the ambient temperature shall be between 45 and 95 degrees F. Water-thinned coatings will be applied only when ambient temperature is between 50 and 90 degrees F. Paints, except water-thinned types, shall be applied only to surfaces that are completely free of moisture as determined by sight or touch. In no case shall paint be applied to surfaces which have visible frost or ice.

PART 2 - PRODUCTS

2.1 MATERIALS: Materials shall conform to the respective specifications listed for use in PART 3, EXECUTION and to the requirements herein except when the required amount of a material of a particular color is 50 gallons or less, in which case an approved first-line proprietary paint material with similar intended usage and color to that specified may be used.

2.2 HAZARDOUS MATERIALS RESTRICTIONS: Paints and painting practices shall comply with all applicable state and local laws enacted to insure compliance with Federal Clean Air Standards.

PART 3 - EXECUTION

3.1 SURFACE PREPARATION: Items not to be painted which are in contact with or adjacent to painted surfaces shall be removed or

protected prior to surface preparation and painting operations. Exposed ferrous metals, including nails on or in contact with surfaces to be painted with water-thinned paints, shall be spot-primed with a suitable corrosion-inhibitive primer capable of preventing flash rusting and compatible with the coating specified for the adjacent areas. All surfaces shall be clean and free of foreign matter before application of paint or surface treatments. Oil and grease shall be removed with clean cloths and cleaning solvents prior to mechanical cleaning. Cleaning solvents shall be of low toxicity with a flashpoint in excess of 100 degrees F. Cleaning shall be programmed so that dust and other contaminants will not fall on wet, newly painted surfaces. Items removed prior to painting shall be replaced when painting is completed.

3.2 Ferrous Surfaces: Exterior ferrous surfaces shall receive the enamel paint system listed in the Painting Schedule.

3.3 Gypsum Board Surfaces: Gypsum board surfaces shall be dry and shall have all loose dirt and dust removed by brushing with a soft brush, rubbing with a dry cloth, or vacuum-cleaning prior to application of the first-coat material.

3.4 Wood Surfaces: Wood surfaces to be painted shall be cleaned of foreign matter. After priming, all holes and imperfections in finish surfaces shall be filled with putty or plastic wood filler, colored to match the finish coat. Putty or wood filler used shall be compatible with subsequent coatings.

3.5 MIXING AND THINNING: Unless otherwise recommended by the manufacturer, paints may be thinned immediately prior to application with not more than 1 pint of suitable thinner per gallon when necessary to suit conditions of surface, temperature, weather, and application methods. The use of thinner shall not relieve the Contractor from obtaining complete hiding, full film thickness, or required gloss. Paints of different manufacturers shall not be mixed.

3.6 APPLICATION: Paint may be applied by brush, roller, or spray. At the time of application, paint shall show no signs of deterioration. Uniform suspension of pigments shall be maintained during application. Each coat of paint shall be applied so dry film shall be of uniform thickness and free from runs, drops, ridges, waves, pinholes or other voids, laps, brush marks, and variations in color, texture, and finish. Hiding shall be complete. Rollers for applying paints and enamels shall be of a type designed for the coating to be applied and the surface to be coated. Special attention shall be given to insure that all edges, corners, crevices, welds, and rivets receive a film thickness equal to that of adjacent painted surfaces.

3.7 Ventilation: Adequate ventilation shall be provided during paint application. Respirators shall be worn by all persons engaged in spray painting. Adjacent areas shall be protected by

approved precautionary measures.

3.8 First Coat: The first coat on gypsum wallboard, and other surfaces shall include repeated touching up of suction spots or overall application of primer or sealer to produce uniform color and gloss. Glazed doors and sashes shall be given both coats of paint within 3 weeks of the time they are glazed, but not before the glazing material has set; paint shall overlay glass about 70 mils all around.

3.9 Time Between Surface Preparation and Painting: Surfaces that have been cleaned, pretreated, and otherwise prepared for painting shall be given a coat of the specified first coat as soon as practical after such pretreatment has been completed, but prior to any deterioration of the prepared surface.

3.10 Coating Progress: Sufficient time shall elapse between successive coats to permit proper drying. This period shall be modified as necessary to suit weather conditions. Oil-based or oleoresinous solvent-type paints shall be considered dry for recoating when the paint feels firm, does not deform or feel sticky under moderate pressure of the thumb, and the application of another coat of paint does not cause the undercoat to lift or lose adhesion.

3.11 Metal Surfaces: First coats other than vinyl paints or vinyl-type wash coats shall be applied by brush. The three-coat paint systems specified for exterior and interior ferrous surfaces shall be applied so that their dry-film thickness at any point shall be not less than 4.0 mils, with the primer having a minimum dry-film thickness of 1.5 mils.

3.12 CLEANING: Cloths, cotton waste and other debris that might constitute a fire hazard shall be placed in closed metal containers and removed at the end of each day. Upon completion of the work, staging, scaffolding, and containers shall be removed from the site or destroyed in an approved manner. Paint and other deposits on adjacent surfaces shall be removed and the entire job left clean and acceptable.

3.13 PAINTING SCHEDULE: The "PAINTING SCHEDULE" at the end of this section prescribes the surfaces to be painted, and the number and types of coats of paint required.

3.14 Shop-Painted Items: Surfaces of items finish-painted by the manufacturer, or specified to be finish-painted under other sections of the specifications, are exempted from the requirements for surface preparation and painting. Shop-primed items shall receive surface preparation and finish painting as required by this section.

PAINTING SCHEDULE

<u>Surface</u>	<u>First Coat</u>	<u>Second Coat</u> <u>Third Coat</u>	<u>Finish Color</u>
Exterior wood, fascia and trim, unless otherwise specified.	TT-E-487	TT-E-487	Chestnut Brown

Interior wood surfaces.	TT-E-543	TT-E-508	Chestnut Brown
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<u>Surface</u>	<u>First Coat</u>	<u>Second Coat</u> <u>Third Coat</u>	<u>Finish Color</u>
Exterior ferrous surfaces, exposed, Rails and Channel	TT-E-489	TT-E-489	Traffic Yellow
Interior gypsum board, unless otherwise specified.	TT-P-650	TT-E-509	White

* Ferrous surfaces: Doors and frames, windows and frames, window and door guards.	TT-E-489	TT-E-489	Chestnut Brown
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* NOTE: Ferrous surfaces which are cleaned by the Contractor shall have a minimum of one coat of alkyd primer applied, compatible with paint used in the painting schedule.

SECTION E
INSPECTION AND ACCEPTANCE

E.1 52.236-4204

INSPECTION OF WORK

Technical surveillance of workmanship and inspection of materials for work being performed under this contract shall be the responsibility of the Director of Engineering and Housing or his authorized representative. This provision in no way authorizes anyone other than the Contracting Officer to commit the Government to changes in the terms of the contract. In the event it is determined necessary to designate a COR for this contract, such designation shall be by a separate letter to the individual selected with a copy furnished to the Contractor.

E.2 52.246-0012

INSPECTION OF CONSTRUCTION (JUL 1986)

(a) Definition. "Work" includes, but is not limited to, materials, workmanship, and manufacture and fabrication of components.

(b) The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements. The Contractor shall maintain complete inspection records and make them available to the Government. All work shall be conducted under the general direction of the Contracting Officer and is subject to Government inspection and test at all places and at all reasonable times before acceptance to ensure strict compliance with the terms of the contract.

(c) Government inspections and tests are for the sole benefit of the Government and do not--

(1) Relieve the Contractor of responsibility for providing adequate quality control measures;

(2) Relieve the Contractor of responsibility for damage to or loss of the material before acceptance;

(3) Constitute or imply acceptance; or

(4) Affect the continuing rights of the Government after acceptance of the completed work under paragraph (i) below.

(d) The presence or absence of a Government inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any term or condition of the specification without the Contracting Officer's written authorization.

(e) The Contractor shall promptly furnish, without additional charge, all facilities, labor, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Contracting Officer. The Government may charge to the Contractor any additional cost of inspection or test when work is not ready at the time specified by the Contractor for inspection or test, or when prior rejection makes reinspection or retest necessary. The Government shall perform all inspections and tests in a manner that will not unnecessarily delay the

work. Special, full size, and performance tests shall be performed as described in the contract.

(f) The Contractor shall, without charge, replace or correct work found by the Government not to conform to contract requirements, unless in the public interest the Government consents to accept the work with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises.

(g) If the Contractor does not promptly replace or correct rejected work, the Government may (1) by contract or otherwise, replace or correct the work and charge the cost to the Contractor or (2) terminate for default the Contractor's right to proceed.

(h) If, before acceptance of the entire work, the Government decides to examine already completed work by removing it or tearing it out, the Contractor, on request, shall promptly furnish all necessary facilities, labor, and material. If the work is found to be defective or nonconforming in any material respect due to the fault of the Contractor or its subcontractors, the Contractor shall defray the expenses of the examination and of satisfactory reconstruction. However, if the work is found to meet contract requirements, the Contracting Officer shall make an equitable adjustment for the additional services involved in the examination and reconstruction, including, if completion of the work was thereby delayed, an extension of time.

(i) Unless otherwise specified in the contract, the Government shall accept, as promptly as practicable after completion and inspection, all work required by the contract or that portion of the work the Contracting Officer determines can be accepted separately. Acceptance shall be final and conclusive except for latent defects, fraud, gross mistakes amounting to fraud, or the Government's rights under any warranty or guarantee.

(End of clause)

END OF SECTION E

SECTION F
DELIVERIES OR PERFORMANCE

F.1 52.212-0003 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to (a) commence work under this contract within 5 calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than 45 Calendar Days. The time stated for completion shall include final cleanup of the premises.

(End of clause)

(R 7-602.44(a) 1965 JAN)

F.2 52.236-4211 PERFORMANCE TIME FOR ADDITIVE ITEM(S) AND/OR CONVERTED OPTIONAL ITEM(S)

The following additional performance time will be applicable to the Additive Item(s) and/or Optional Item(s) stated in Bid Schedule:

ITEM NUMBER	CALENDAR DAYS
0004	30
0005	30
0006	30

Note: If any two or all three additive bid items (0004 through 0006) are awarded on one contract, then the total amount of days shall not exceed 45 days for additives.

SECTION G
CONTRACT ADMINISTRATION DATA

G.1 52.242-4201

RESPONSIBILITY FOR ADMINISTRATION OF CONTRACT

The Contract Administration Division is responsible for the administration of this contract. The Contracting Officer alone is authorized to take action on behalf of the Government which results in changes in the terms of the contract, including deviations from specifications, details and delivery schedules.

END OF SECTION G

SECTION H
SPECIAL CONTRACT REQUIREMENTS

H.1 52.000-4207

FIRE PREVENTION

a. The current Post Fire Regulations, AR 420-90, "Fire Prevention and Protection" and FLW Supplement 1 to AR 420-90 are by this reference made a part of this solicitation and resultant contract. The Contractor's operations shall conform to all applicable portions of those documents. All personnel entering on duty as Contractor's employees shall be instructed in the fire prevention program of the Post and shall be advised of the requirement of the Post Fire Regulations as they pertain to this particular contract.

b. The Contractor shall obtain a written "Hot Work Permit" (DA Form 5383-R) prior to commencing all hot work outside an approved shop area. Permits will be issued by the Fort Leonard Wood Fire Department, 596-5615-3431, after all necessary precautions have been taken, such as wetting down the area, protection of combustible material, and positioning of first aid fire extinguishers of proper type and class. Permits must be obtained in advance for use of open flame devices, such as blow torches, portable furnaces, tar kettles, or gas and electric welding and cutting equipment. Preparation and protection for such areas are the responsibility of the Contractor accomplishing the work. An inspection conducted by the Fire Department prior to commencing work may be required; however, the Contractor shall conduct an inspection of the area at least 30 minutes after completion of all work. The Contractor shall be liable for any fire loss to Government property attributable to negligence on the part of the Contractor, including failure to comply with fire prevention measures prescribed by terms of this contract.

c. The Fire Prevention-Protection Division is responsible for monitoring the Contractor in the area of fire prevention and advising the Contracting Officer of all deficiencies. The Contracting Officer will alert the Contractor if a violation is a fire hazard or fire protection deficiency.

d. This provision in no way authorizes anyone other than the Contracting Officer to commit the Government to changes in the terms of the contract.

H.2 52.000-4208

NORMAL WORKING HOURS

a. The Contractor shall schedule his working hours to coincide with the working hours of the military reservation. Normal working hours of the

reservation are 7:00 a.m. to 3:30 pm, Monday thru Friday, Legal Public Holidays excepted. The Contractor shall not perform work on the reservation beyond the aforementioned working hours without the written approval of the Contracting Officer.

Legal Public Holidays:

New Year's Day, 1 January
Martin Luther King, Jr.'s Birthday, the third Monday in January
Presidents' Day, the third Monday in February
Memorial Day, the last Monday in May
Independence Day, 4 July
Labor Day, the first Monday in September
Columbus Day, the second Monday in October
Veterans Day, 11 November
Thanksgiving Day, the fourth Thursday in November
Christmas Day, 25 December

When such holidays fall on a Saturday, the preceding Friday will also be considered a holiday. When such holidays fall on a Sunday, the succeeding Monday will also be considered a holiday.

b. If the Contractor for his convenience desires to perform work during other than normal working hours or on other than normal workdays, he shall notify the Contracting Officer in writing at least 72 hours in advance. The Contractor shall not perform work beyond the normal working hours or normal workdays without the Contracting Officer's written approval. The Contractor shall reimburse the Government for any additional expense occasioned the Government thereby, such as, but not limited to, overtime pay for Government inspectors, utilities service, etc.

H.3 52.000-4209

UTILIZATION OF HEAVY TRACKED OR WHEELED EQUIPMENT

All projects which require the use of any heavy tracked or wheeled equipment on the streets will require prior approval by the Post Engineer. Authorization will not be required for normal vehicular traffic.

SCHEDULE OF WAGE RATES

(a) The Contractor shall pay laborers and mechanics employed on this project the minimum wages set forth in Schedule attached, as determined by the Secretary of Labor to be prevailing for the corresponding classes of laborers and mechanics.

(b) Whenever any laborer or mechanic, including apprentices and trainees, is to be employed in a classification not listed in the wage determination decision applicable to the contract, the Contractor concerned must submit a statement of the proposed additional classification and minimum wage rate, including fringe benefits payments, if any. DD Form 1565, "Request for Authorization of Additional Classification and Rate", shall be used for such proposals. Upon approval, the additional classification and rate shall be posted with the wage determination decision.

BONDS

a. **BID GUARANTEE.** Each bidder shall submit with his bid a Bid Bond (Standard Form 24) with good and sufficient surety or sureties acceptable to the Government, or other security as provided in Contract Clause, Bid Bond, in the form of twenty percent (20%) of the bid price or \$3,000,000, whichever is lesser. The bid bond penalty may be expressed in terms of a percentage of the bid price or may be expressed in dollars and cents. (Not required for bids of \$25,000 or less) (FAR 28.101-1).

b. **PERFORMANCE AND PAYMENT BONDS.** Within ten (10) days after the Government accepts the Contractor's offer, by signing Item 318 of Standard Form 1442, the Contractor shall furnish a Performance Bond (Standard Form 25) and a Payment Bond (Standard Form 25-A), each with good and sufficient surety or sureties acceptable to the Government. The penal sums of such bonds will be as follows: (Not required for contracts of \$25,000 or less)

(1) **Performance Bond:** The penal sum of the performance bond shall equal one hundred percent (100%) of the contract price.

(2) **Payment Bond:**

(a) When the contract price is \$1,000,000 or less, the penal sum shall be fifty percent (50%) of the contract price.

(b) When the contract price is in excess of \$1,000,000 but not more than \$5,000,000, the penal sum shall be forty percent (40%) of the contract price.

(c) When the contract price is more than \$5,000,000, the penal sum shall be \$2,500,000.

c. Any bonds required will be furnished by the Contractor to the Government prior to commencement of contract performance.

H.6 52.228-4202

REQUIRED INSURANCE

a. The Contractor shall, at its own expense, procure and maintain during the entire period of his performance under this contract the following minimum insurance:

TYPE	AMOUNT
(1) Workmen's Compensation:	
The required Workmen's Compensation Insurance shall extend to cover employee's liability for accidental bodily injury or death and for occupational disease with a minimum liability of:	\$100,000.00
(2) Comprehensive General Liability with minimum limits of:	
Per accident or occurrence for bodily injury	\$500,000.00
This insurance shall include Contractor's protective liability and contractual liability.	
(3) Comprehensive Automobile Liability with minimum limits of:	
Per Person	\$200,000.00
Per Accident for Bodily Injury	\$500,000.00
Per Accident for Property Damage	\$ 20,000.00

b. Prior to commencement of work hereunder, the Contractor shall furnish to the Contracting Officer, a certificate or written statement of the above required insurance. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change in the policies adversely affecting the interests of the Government in such insurance shall not be effective for such periods as may

be prescribed by the laws of the State in which this contract is to be performed and in no event less than thirty (30) days after written notice thereof to the Contracting Officer.

c. The Contractor shall insert the substance of this clause, including this paragraph c, in subcontracts under this contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required in the Schedule, or elsewhere in the contract. At least five (5) days before entry of each such subcontractor's personnel on the Government installation, the Contractor shall furnish (or ensure that there has been furnished) to the Contracting Officer a current certificate of insurance, meeting the requirements of paragraph b above, for each such subcontractor.

H.7 52.232-4203

MATERIAL PAYMENT AUTHORIZATION

Consideration is hereby authorized for PROGRESS PAYMENTS to the Contractor for materials to be utilized on the work covered by this contract, delivered to the Contractor at locations other than the site. The Contractor must furnish satisfactory evidence that he has acquired title to such material and the material will be inventoried by the Government. The reimbursement by the Government shall not be construed as relieving the Contractor from the sole responsibility for the protection and the security of the material or as waiving the right of the Government to require the fulfillment of all of the terms of the contract.

H.8 52.236-4203

MAGNITUDE OF PROJECT

The magnitude of this project is between \$25,000 and \$100,000.

H.9 52.236-4205

PREPARATION OF PROGRESS SCHEDULES AND REPORTS

The reports contemplated by the clause herein entitled "Schedules for Construction Contracts" shall be accomplished on and in accordance with instructions pertaining to the forms, Contract Progress Schedule and Contract Progress Report.

H.10 52.236-4206

PRECONSTRUCTION CONFERENCE

A Preconstruction Conference will be scheduled by the Contracting Officer after contract award and prior to commencement of work. The Contracting Officer will notify the Contractor of the time and date set for the meeting which will be held at Fort Leonard Wood, MO. At this meeting, the Contractor will be oriented with respect to Government procedures and line of authority, as well as contractual, administrative, and construction matters. The Contractor is required to furnish a current Certificate of Insurance and a letter appointing a construction superintendent at the meeting.

H.11 52.236-4207

SAFETY AND ACCIDENT PREVENTION

a. In performing work under this contract, the contractor shall - -

(1) Conform to the specific safety requirements established by this contract;

(2) Comply with the safety rules of the Government installation that concern related activities not directly addressed in this contract;

(3) Take all reasonable steps and precautions to prevent accidents and preserve the life and health of Contractor and Government personnel performing or in any way coming in contact with the performance of this contract; and

(4) Take such additional immediate precautions as the Contracting Officer may reasonably require for safety and accident prevention purposes.

b. The Installation Safety Officer will be responsible for monitoring the Contractor in the area of safety and accident prevention.

c. This provision in no way authorizes anyone other than the Contracting Officer to commit the Government to changes in the terms of the contract.

H.12 52.236-4209

LICENSES, PERMITS AND BONDS REQUIRED FOR WORK ON RESERVE CENTERS

a. The Contractor shall provide at his expense all licenses, permits and bonds as may be required by the state, county, and municipality on which he will operate any type of motor vehicle.

b. Any vehicle operated by the Contractor on the military reservation

must meet State Safety Standards and carry a current state inspection sticker to so indicate.

c. Contractor will be required to submit evidence of insurance on all vehicles. Operators will be required to possess valid state permits to operate the vehicles which are assigned to them (Driver's License, Chauffeur's License, etc.).

H.13. 52.236-4210

UTILITIES

The Government will provide necessary utilities for the completion of the work at no charge to the Contractor.

H.14 52.236-4213

EXCAVATION PERMIT REQUEST

If this project requires an excavation permit, the following procedures will apply:

a. Excavation Permit requests shall be submitted with all relevant information, to include map or drawing of area to be excavated, to the Work Coordination Section, DEH (Bldg. 2200), a minimum of 10 working days prior to the planned start of the described excavations. Same day execution will no longer be supplied (with the exception being in true emergency situations; a contractor ready to start work that day will not be considered an emergency).

b. Work Management Branch personnel will annotate each request with the appropriate comments, route to COMNEL (phone company) for their review, and will then have it returned to Work Coordination so that it may be picked up, fully completed, by the requestor 10 working days after it was submitted.

END OF SECTION H.

SECTION J
LIST OF ATTACHMENTS

J-01 Wage Decision. Wage Decision No. M090-3, and Modification No. 1 are incorporated herein, and made applicable to this solicitation and any resultant contract.

END OF SECTION J

U.S. Department of Labor**GENERAL WAGE DECISION NO. M090-3****Supersedes General Wage Decision No. M089-3****State: MISSOURI****County(ies): Franklin, Jefferson, Lincoln, St. Charles, Warren, and
City and County of St. Louis****Construction
Type: BUILDING****Construction
Description: Building Projects, excluding single family homes and
apartments up to and including 4 stories.****Modification Record:****No.
1****Publication Date
May 25, 1990****Page No.(s)
660-662**

U.S. Department of Labor

DABT31-90-B-0042

J-3

MO90-3



	BASIC HOURLY RATES	FRINGE BENEFITS
*ASBESTOS WORKERS:		
*Asbestos Workers	22.50	4.50
Swing Stage of Boson's Chair	21.98	3.84
BOILERMAKERS	18.80	3.50
BRICKLAYERS, STONEMASONS	17.35	4.47
*CARPENTERS, MILLWRIGHTS, PILEDRIVERMEN:		
*Zone 1	19.81	3.33
*CARPENTERS:		
*Zone 2:		
Contracts \$100,000.00 and under	17.02	3.33
Contracts over \$100,000.00	19.81	3.33
*Zone 3:		
Contracts \$100,000.00 and under	16.77	3.33
Contracts over \$100,000.00	18.54	3.33
*CARPET, LINOLEUM, HARDWOOD and RESILIENT TILE LAYERS	18.51	4.69
*CEMENT MASONS:		
Zone 1	17.86	4.74
*Zone 2:		
Projects less than 10 million	17.16	4.69
Projects 10 million & over	17.86	4.69
*ELECTRICIANS:		
Zone 1	19.40	2.20+ 33.5%
Zone 2	19.40	2.20+ 33.5%
Zone 3	14.78	2.20+ 33.5%
*ELEVATOR CONSTRUCTORS	19.63	4.77+ a
*ELEVATOR CONSTRUCTORS' HELPERS	70% JR	4.77+ a
ELEVATOR CONSTRUCTORS' HELPERS (PROB).	50% JR	
*GLAZIERS	18.93	8.20+ 13.2%
*IRONWORKERS	20.18	4.34
*LABORERS:		
*Zone 1:		
General Laborers; Flagger	17.51	3.30
Wrecking Laborers	17.39	3.30
Plasterers' Tenders	17.57	3.30
Mason Tenders, Brick	16.80	3.30
Plumber, Labor	17.65	3.30
Site Improvement Labor	17.28	3.30
Zone 2:		
Contracts \$500,000.00 or less:		
General Laborers	14.00	2.50
Mason Tenders, Plumbers' Laborers,		
Plaster Tender	14.20	2.50
Contracts over \$500,000.00:		
General Laborers	15.50	2.50
Mason Tenders, Plumbers' Laborers		
Plaster Tender	15.70	2.50
*Zone 3:		
*Contracts less than \$500,000.00:		
General Laborer	15.00	2.55
Powderman	14.35	2.55
Mason Tenders; Plaster Tenders;		
Grade Checker; Pipelayers	14.10	2.55

U.S. Department of Labor

DABT31-90-B-0042

J-4

MO90-3



Contracts \$500,000.00 or over:		
General Laborer	15.20	2.65
Powderman	15.95	2.65
Mason Tenders; Plaster Tenders;		
Grade Checker; Pipelayers	15.70	2.65
Zone 4:		
General Laborer	16.02	2.80
Plumber Laborer	16.45	2.80
Zone 5:		
General Laborer projects under \$2		
Million	15.02	2.80
General Laborer projects \$2 Million		
to 15 Million	15.52	2.80
General Laborer projects over \$15		
Million	16.02	2.80
Plumber Laborer	13.07	2.55
MARBLE SETTERS	16.79	3.345
MARBLE FINISHERS	17.50	
*PAINTERS:		
Brush	16.95	4.00
Spray. Sandblasting	18.95	4.00
PIPEFITTERS:		
Zone 1	21.30	6.38
PIPEFITTERS AND PLUMBERS:		
Zone 1	21.30	6.38
*PLASTERERS	18.685	3.18
*PLUMBERS:		
Zone 1	19.855	4.50
POWER EQUIPMENT OPERATORS:		
Group I	17.42	4.82
Group II	17.42	4.82
Group III	16.12	4.82
Group III (a)	14.02	4.82
Group IV	15.67	4.82
Group IV (a)	13.56	4.82
Group V:		
(a)	18.12	4.82
(b)	18.97	4.82
(c)	19.42	4.82
(d)	20.17	4.82
*ROOFERS	17.15	3.45
*SHEET METAL WORKERS	18.25	6.37
SPRINKLER FITTERS	23.86	3.42
TERRAZZO WORKERS	20.55	
TILE LAYERS	17.42	3.485
TILE WORKERS' FINISHERS	15.62	3.005
TRUCK DRIVERS:		
Group 1 - Fork lift trucks (single axle);		
job site ambulances & trucks or trailers		
of a water level capacity of 11.99 cu. yds.		
or less; pick-up trucks; and flat bed		
trucks	16.42	1.53 per hr. +
		61.00 per wk.
		+ b
Group 2 - Trucks or trailers of a wa-		
ter level capacity of 12.0 cu. yds.		
up to 22.0 cu. yds. including euclids,		

U.S. Department of Labor

DABT31-90-B-0042

J-5

M090-3



speedace and similar equipment of same capacity and compressors

16.62 1.53 per hr.+
61.00 per wk.
+ b

Group 3 - Trucks or trailers of a water level capacity of 22.0 cu. yds. & over including euclids, speedace & all floats, flat bed trailers, boom trucks, winch trucks, including small trailers, farm wagons, tilt-top trailers, tool trailers, concrete pumps, concrete conveyors & gasoline tank trailers and truck mounted mobile concrete mixers

16.62 1.53 per hr.+
61.00 per wk.
+ b

FOOTNOTES

ELEVATOR CONSTRUCTORS:

- a. Employer contributes 8% of basic hourly rate for over 5 years' service and 6% of basic hourly rate for 6 months' to 5 years' service as Vacation Pay Credit, also (7) Paid Holidays A thru G. A-Christmas Day; B-New Years' Day; C-Independence Day; D- Memorial Day; E-Labor Day; F-Thanksgiving Day; G-the Friday after Thanksgiving Day

TRUCK DRIVERS:

- b. Paid vacation of 3 days for 600 hours of service in any one contract year; 4 days paid vacation for 800 hours of service in any one contract year; 5 days paid vacation for 1,000 hours of service in any one contract year. Also 7 paid holidays A thru G. A-Christmas Day, B-New Year's Day, C-Independence Day, D-Memorial Day, E-Labor Day, F-Thanksgiving Day, G-Friday After Thanksgiving.

WELDERS: Receive rate prescribed for craft performing operation to which welding is incidental.

***ZONE DESCRIPTIONS**

CARPENTERS, MILLWRIGHTS, PILEDRIVMEN:

- *Zone 1: St. Louis City and County, and St. Charles County
- *Zone 2: Jefferson, Franklin & Warren Counties
- *Zone 3: Lincoln County

CEMENT MASONS:

- Zone 1: St. Louis City and County, Jefferson and St. Charles Counties
- Zone 2: Franklin, Lincoln, and Warren Counties

ELECTRICIANS:

- Zone 1: City and County of St. Louis, and St. Charles County
- Zone 2: Franklin, Jefferson, Lincoln, and Warren Counties where the electrical contracts exceeds \$100,000.00

U.S. Department of Labor

DABT31-90-B-0042

J- 6

M080-3

Zone 3: Franklin, Jefferson, Lincoln, and Warren Counties
where the electrical contract does not exceed \$100,000.00

LABORERS:

- Zone 1: City and County of St. Louis
- Zone 2: Franklin County
- Zone 3: Jefferson County
- Zone 4: St. Charles County
- Zone 5: Lincoln and Warren Counties

PIPEFITTERS:

- Zone 1: Franklin, Jefferson, St. Charles, St. Louis City and County and Warren Counties

PIPEFITTERS AND PLUMBERS:

- Zone 1: Lincoln County

PLUMBERS:

- Zone 1: Franklin, Jefferson, St. Charles, St. Louis City and County and Warren Counties

POWER EQUIPMENT OPERATORS:

Group I - Backhoe cable or hydraulic; cableway; crane, crawler or truck; crane, hydraulic-truck or cruiser mounted - 16 tons & over; crane locomotive; derrick, steam; derrick car & derrick boat; dragline; dredge; gradall, crawler or tire mounted; locomotive, gas, steam & other powers; pile driver, land or floating; scoop, skimmer; shovel, power (steam, gas, electric, or other powers); switch boat; whirley

Group II - Air tugger w/air compressor; anchor-placing barge; asphalt spreader; atehy force feeder loader (self-propelled); backfilling machine; boat operator-push boat or tow boat (jobsite); boiler, high pressure breaking in period; boom truck, placing or erecting; boring machine, footing foundation; bullfloat; cherry picker; combination concrete hoist & mixer (such as mixermobile); compressor (when operator runs throttle); generators, two 30 KW or over, or any number developing over 30 KW; generator-pump combination; concrete breaker (truck or tractor mounted); concrete pump, such as pump-crete machine; concrete spreader; conveyor, large (not self-propelled), hoisting or moving brick and concrete into, or into and on floor level, one or both; crane, hydraulic-rough terrain, self-propelled; crane hydraulic-truck or cruiser mounted-under 16 tons; drilling machines, self-powered, used for earth or rock drilling or boring (wagon drills and any hand drills obtaining power from other sources including concrete breakers, jackhammers and barco equipment - no engineer required); elevating grader; engineman, dredge; excavator or powerbelt machine; finishing machine, self-propelled oscillating screed; forklift; grader, road with power blade; highlift; hoist; concrete and brick (brick cages or concrete skips operating in or on tower, towernobile, or similar equipment); hoist; stack; hydro-hammer; lad-a-vator, hoisting brick or concrete; loading machine (such as barber-greene); mechanic, on job site; mixer, paving; mixer-mobile; mucking machine; pipe cleaning machine; pipe wrapping machines; plant asphalt; plant, concrete producing or ready-mix job



site; plant heating- job site; plant mixing-job site; plant power, generating-job site; pumps, two self-powered over 2" through 6"; pumps, electric submersible, one through three, over 4"; quad-track; roller, asphalt, top or sub-grade; scoop, tractor drawn; spreader box; sub-grader; tie tamper; tractor-crawler, or wheel type with or without power unit, power take-offs and attachments regardless of size; trenching machine; tunnel boring machine; vibrating machine automatic, automatic propelled; welding machine (gasoline or diesel) more than one but not over six (regardless of size); well drilling machine; backhoe - loader

Group III - Conveyor, large (not self-Propelled); conveyor, large (not self-propelled) moving brick and concrete (distributing) on floor level; mixer two or more mixers of one bag capacity or less, air tugger w/plant air; boiler, for power or heating on construction projects; boiler, temporary; compressor, air-one; compressor (mounted on truck; concrete saw, self-propelled; curb finishing machine; ditch paving machine; elevator (building construction or alteration); endless chain hoist; form grader; generator, one over 30 KW or any number developing over 30 KW; greaser; hoist; one drum regardless of size (except brick or concrete) lad-a-vator, other hoisting; manlift; mixer, asphalt, over 8 cu. ft. capacity, mixer, if two or more mixers of one bag capacity or less are used by one employer on job an operator is required; mixer, with outside loader, 2 bag capacity or more; mixer, with side loader, regardless of size, not paver; oiler on dredge; oiler on truck crane pug mill operator; pump, sump-self-powered, automatic controlled over 2" during use in connection with construction work; sweeper, street; welding machine, one over 400 amp.; winch operating from truck; scissor lift (used for hoisting); tractor, small wheel type 50 h.p. & under with grader blade & similar equipment

Group III(a) - Truck crane and dredge

Group IV - Boat operator-outboard motor (job site); conveyor (such as con-vay-it) regardless of how used; oiler; sweeper, floor

Group IV(a) - Crawler type

Group V - (a) Air pressure, oiler engineer, operating under ten pounds
 (b) air pressure, oiler engineer operating over ten pounds
 (c) air pressure engineer operating under ten pounds
 (d) air pressure engineer operating over ten pounds
 (e) crane-piledriving and extracting; crane using rock socket tool; dragline - 7 cu. yds. & over; shovel, power - 7 cu. yds. and over; crane, climbing such as Linden); derrick, diesel, gas or electric hoisting material and erecting steel - 150' or more above ground; hoists, three or more drums; scoop, tandem; tractor, tandem crawler

Crane with boom (including jib), over 100' from pin to pin (add 1c per foot to maximum of \$2.00) above basic rate for crane

Work in tunnel or tunnel shaft, .50c above base rate

U.S. Department of Labor

DABT31-90-B-0042

J-8 -
M090-3



Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards clauses (29 CFR. 5.5 (a)(1)(1)).

SECTION I
CONTRACT CLAUSES

I.1 52.252-0002 CLAUSES INCORPORATED BY REFERENCE (JUN 1988)

This contract incorporates the following clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their text available.

I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)
CLAUSES

II. DOD FAR SUPPLEMENT (48 CFR CHAPTER 2) CLAUSES

(End of clause)

(R 7-001)

I.2 52.202-0001 I DEFINITIONS (APR 1984)--ALTERNATE I (APR 1984)
(Reference 2.201)

I.3 52.203-0001 OFFICIALS NOT TO BENEFIT (APR 1984)
(Reference 3.102-2)

I.4 52.203-0003 GRATUITIES (APR 1984)
(Reference 3.202)

I.5 52.203-0005 COVENANT AGAINST CONTINGENT FEES (APR 1984)
(Reference 3.404(c))

I.6 52.203-0007 ANTI-KICKBACK PROCEDURES (OCT 1988)
(Reference 3.502-3)

I.7 52.203-7001 SPECIAL PROHIBITION ON EMPLOYMENT (MAR 1989)
(Reference 3.571-5)

I.8 52.212-0012 SUSPENSION OF WORK (APR 1984)
(Reference 12.505(a))

I.9 52.219-0008 UTILIZATION OF SMALL BUSINESS CONCERNS AND SMALL DISADVANTAGED BUSINESS
CONCERNS (FEB 1990)
(Reference 19.708(a))

1.10	52.219-0013	UTILIZATION OF WOMEN-OWNED SMALL BUSINESSES (AUG 1986) (Reference 19.902)
1.11	52.220-0001	PREFERENCE FOR LABOR SURPLUS AREA CONCERNS (APR 1984) (Reference 20.103(b))
1.12	52.220-0003	UTILIZATION OF LABOR SURPLUS AREA CONCERNS (APR 1984) (Reference 20.302(a))
1.13	52.222-0001	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (APR 1984) (Reference 22.103-5(a))
1.14	52.222-0003	CONVICT LABOR (APR 1984) (Reference 22.202)
1.15	52.222-0026	EQUAL OPPORTUNITY (APR 1984) (Reference 22.810(e))
1.16	52.222-0027	AFFIRMATIVE ACTION COMPLIANCE REQUIREMENTS FOR CONSTRUCTION (APR 1984) (Reference 22.810(f))
1.17	52.222-0035	AFFIRMATIVE ACTION FOR SPECIAL DISABLED AND VIETNAM ERA VETERANS (APR 1984) (Reference 22.1308(a))
1.18	52.222-0036	AFFIRMATIVE ACTION FOR HANDICAPPED WORKERS (APR 1984) (Reference 22.1408(a))
1.19	52.222-0037	EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA (JAN 1988) (Reference 22.1308(b))
1.20	52.225-0005	BUY AMERICAN ACT--CONSTRUCTION MATERIALS (APR 1984) (Reference 25.205)

1.21	52.227-0001	AUTHORIZATION AND CONSENT (APR 1984) (Reference 27.201-2(a))
1.22	52.227-0002	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (APR 1984) (Reference 27.202-2)
1.23	52.227-0004	PATENT INDEMNITY--CONSTRUCTION CONTRACTS (APR 1984) (Reference 27.203-5)
1.24	52.227-7033	RIGHTS IN SHOP DRAWINGS (APR 1966) (Reference 27.478-2(a))
1.25	52.228-0002	ADDITIONAL BOND SECURITY (APR 1984) (Reference 28.106-4)
1.26	52.228-0005	INSURANCE--WORK ON A GOVERNMENT INSTALLATION (SEP 1989) (Reference 28.310)
1.27	52.229-0003	FEDERAL, STATE, AND LOCAL TAXES (APR 1984) (Reference 29.401-3)
1.28	52.229-0005	TAXES--CONTRACTS PERFORMED IN U.S. POSSESSIONS OR PUERTO RICO (APR 1984) (Reference 29.401-5)
1.29	52.232-0017	INTEREST (APR 1984) (Reference 32.617(a))
1.30	52.232-0023 I	ASSIGNMENT OF CLAIMS (JAN 1986)--ALTERNATE I (APR 1984) (Reference 32.806(a)(2))
1.31	52.232-0027	PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (APR 1989) (Reference 32.908(b))
1.32	52.233-0001	DISPUTES (APR 1984) (Reference 33.214)

1.33	52.233-0003	PROTEST AFTER AWARD (AUG 1989) (Reference 33.106(b))
1.34	52.236-0002	DIFFERING SITE CONDITIONS (APR 1984) (Reference 36.502)
1.35	52.236-0003	SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK (APR 1984) (Reference 36.503)
1.36	52.236-0005	MATERIAL AND WORKMANSHIP (APR 1984) (Reference 36.505)
1.37	52.236-0006	SUPERINTENDENCE BY THE CONTRACTOR (APR 1984) (Reference 36.506)
1.38	52.236-0007	PERMITS AND RESPONSIBILITIES (APR 1984) (Reference 36.507)
1.39	52.236-0008	OTHER CONTRACTS (APR 1984) (Reference 36.508)
1.40	52.236-0009	PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS (APR 1984) (Reference 36.509)
1.41	52.236-0010	OPERATIONS AND STORAGE AREAS (APR 1984) (Reference 36.510)
1.42	52.236-0011	USE AND POSSESSION PRIOR TO COMPLETION (APR 1984) (Reference 36.511)
1.43	52.236-0012	CLEANING UP (APR 1984) (Reference 36.512)
1.44	52.236-0013	ACCIDENT PREVENTION (APR 1984) (Reference 36.513)

1.45	52.236-0014	AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984) (Reference 36.514)
1.46	52.236-0017	LAYOUT OF WORK (APR 1984) (Reference 36.517)
1.47	52.236-0021	SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (APR 1984) (Reference 36.520)
1.48	52.236-7000	COMPOSITION OF CONTRACTOR (JAN 1965) (Reference 36.571-1)
1.49	52.236-7001	MODIFICATION PROPOSALS - PRICE BREAKDOWN (APR 1968) (Reference 36.571-2)
1.50	52.236-7019	ACCIDENT PREVENTION (JUL 1989) (Reference 36.513)
1.51	52.243-0004	CHANGES (AUG 1987) (Reference 43.205(d))
1.52	52.243-7001	PRICING OF ADJUSTMENTS (APR 1984) (Reference 43.205(s-71))
1.53	52.246-0021	WARRANTY OF CONSTRUCTION (APR 1984) (Reference 46.710(e)(1))
1.54	52.248-0003	VALUE ENGINEERING--CONSTRUCTION (MAR 1989) (Reference 48.202)
1.55	52.249-0001	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (SHORT FORM) (APR 1984) (Reference 49.502(a)(1))
1.56	52.249-0010	DEFAULT (FIXED-PRICE CONSTRUCTION) (APR 1984) (Reference 49.504(c)(1))

1.57 52.209-0006

PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTOR
DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (MAY 1989)

(a) The Government suspends or debar Contractors to protect the Government's interest. Contractors shall not enter into any subcontract equal to or in excess of \$25,000 with a Contractor that has been debarred, suspended, or proposed for debarment unless there is a compelling reason to do so. If a Contractor intends to subcontract with a party that is debarred, suspended, or proposed for debarment (see FAR 9.404 for information on the list of Parties Excluded from Procurement Programs), a corporate officer or designee of the Contractor shall notify the Contracting Officer, in writing, before entering into such subcontract. The notice must include the following:

- (1) The name of the subcontractor;
- (2) The Contractor's knowledge of the reasons for the subcontractor being on the list of Parties Excluded from Procurement Programs;
- (3) The compelling reason(s) for doing business with the subcontractor notwithstanding its inclusion on the list of Parties Excluded from Procurement Programs; and
- (4) The systems and procedures the Contractor has established to ensure that it is fully protecting the Government's interests when dealing with such subcontractor in view of the specific basis for the party's debarment, suspension, or proposed debarment.

(b) The Contractor's compliance with the requirements of 52.209-6 will be reviewed during Contractor Purchasing System Reviews (see FAR Subpart 44.3).

(End of clause)

1.58 52.212-0005

LIQUIDATED DAMAGES--CONSTRUCTION (APR 1984)

(a) If the Contractor fails to complete the work within the time specified in the contract, or any extension, the Contractor shall pay to the Government as liquidated damages, the sum of \$54.37 for each day of delay.

(b) If the Government terminates the Contractor's right to proceed, the resulting damage will consist of liquidated damages until such reasonable time as may be required for final completion of the work together with any increased costs occasioned the Government in completing the work.

(c) If the Government does not terminate the Contractor's right to proceed, the resulting damage will consist of liquidated damages until the work is completed or accepted.

(End of clause)

(R 7-602.5 1969 AUG)

(R 1-18.110(a))
(R 7-603.39 1965 JAN)
(R 1-8.709-1)

I.59 52.222-0004

CONTRACT WORK HOURS AND SAFETY STANDARDS ACT--OVERTIME COMPENSATION
(MAR 1986)

(a) Overtime requirements. No Contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics (see Federal Acquisition Regulation (FAR) 22.300) shall require or permit any such laborers or mechanics in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than 1 1/2 times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(b) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the provisions set forth in paragraph (a) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic employed in violation of the provisions set forth in paragraph (a) of this clause in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by provisions set forth in paragraph (a) of this clause.

(c) Withholding for unpaid wages and liquidated damages. The Contracting Officer shall upon his or her own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any other Federal contract with the same Prime Contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same Prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the provisions set forth in paragraph (b) of this clause.

(d) Payrolls and basic records. (1) The Contractor or subcontractor shall maintain payrolls and basic payroll records during the course of contract work and shall preserve them for a period of 3 years from the completion of the contract for all laborers and mechanics working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of

wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Nothing in this paragraph shall require the duplication of records required to be maintained for construction work by Department of Labor regulations at 29 CFR 5.5(a)(3) implementing the Davis-Bacon Act.

(2) The records to be maintained under paragraph (d)(1) of this clause shall be made available by the Contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the Contracting Officer or the Department of Labor. The Contractor or subcontractor shall permit such representatives to interview employees during working hours on the job.

(e) Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the provisions set forth in paragraphs (a) through (e) of this clause and also a clause requiring the subcontractors to include these provisions in any lower tier subcontracts. The Prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the provisions set forth in paragraphs (a) through (e) of this clause.

(End of clause)

1.60 52.222-0006

DAVIS-BACON ACT (FEB 1988)

(a) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (d) of this clause; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such period. Such laborers and mechanics shall be paid not less than the appropriate wage rate and fringe benefits in the wage determination for the classification of work actually performed, without regard to skill, except as provided in the clause entitled Apprentices and Trainees. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided, that the employer's payroll records

accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph (b) of this clause) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(b)(1) The Contracting Officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The Contracting Officer shall approve an additional classification and wage rate and fringe benefits therefor only when all the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination.

(ii) The classification is utilized in the area by the construction industry.

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the Contracting Officer agree on the classification and wage rate (including the amount designated for fringe benefits, where appropriate), a report of the action taken shall be sent by the Contracting Officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator or an authorized representative will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the Contracting Officer or will notify the Contracting Officer within the 30-day period that additional time is necessary.

(3) In the event the Contractor, the laborers or mechanics to be employed in the classification, or their representatives, and the Contracting Officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the Contracting Officer shall refer the questions, including the views of all interested parties and the recommendation of the Contracting Officer, to the Administrator of the Wage and Hour Division for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the Contracting Officer or will notify the Contracting Officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits, where appropriate) determined pursuant to subparagraphs (b)(2) and (b)(3) of this clause shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(c) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(d) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program; provided, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(End of clause)

I.61 52.222-0007

WITHHOLDING OF FUNDS (FEB 1988)

The Contracting Officer shall, upon his or her own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same Prime Contractor, or any other Federally assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same Prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the Contracting Officer may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(End of clause)

I.62 52.222-0008

PAYROLLS AND BASIC RECORDS (FEB 1988)

(a) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of 3 years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily

and weekly number of hours worked, deductions made, and actual wages paid. Whenever the Secretary of Labor has found, under paragraph (d) of the clause entitled Davis-Bacon Act, that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(b)(1) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Contracting Officer. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under paragraph (a) of this clause. This information may be submitted in any form desired. Optional Form WH-347 (Federal Stock Number 029-005-00014-1) is available for this purpose and may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The Prime Contractor is responsible for the submission of copies of payrolls by all subcontractors.

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify--

(i) That the payroll for the payroll period contains the information required to be maintained under paragraph (a) of this clause and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR Part 3; and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by subparagraph (b)(2) of this clause.

(4) The falsification of any of the certifications in this clause may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 3729 of Title 31 of the United States Code.

(c) The Contractor or subcontractor shall make the records required under paragraph (a) of this clause available for inspection, copying, or transcription by the Contracting Officer or authorized representatives of the Contracting Officer or the Department of Labor. The Contractor or subcontractor shall permit the Contracting Officer or representatives of the Contracting Officer or the Department of Labor to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit required records or to make them available, the Contracting Officer may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(End of clause)

1.63 52.222-0009

APPRENTICES AND TRAINEES (FEB 1988)

(a) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in this paragraph, shall be paid not less than the applicable wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's

or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(b) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed in the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate in the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate in the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate in the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(c) Equal employment opportunity. The utilization of apprentices,

trainees, and journeymen under this clause shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

(End of clause)

1.64 52.222-0010

COMPLIANCE WITH COPELAND ACT REQUIREMENTS (FEB 1988)

The Contractor shall comply with the requirements of 29 CFR Part 3, which are hereby incorporated by reference in this contract.

(End of clause)

1.65 52.222-0011

SUBCONTRACTS (LABOR STANDARDS) (FEB 1988)

(a) The Contractor or subcontractor shall insert in any subcontracts the clauses entitled Davis-Bacon Act, Contract Work Hours and Safety Standards Act--Overtime Compensation, Apprentices and Trainees, Payrolls and Basic Records, Compliance with Copeland Act Requirements, Withholding of Funds, Subcontracts (Labor Standards), Contract Termination--Debarment, Disputes Concerning Labor Standards, Compliance with Davis-Bacon and Related Act Regulations, and Certification of Eligibility, and such other clauses as the Contracting Officer may, by appropriate instructions, require, and also a clause requiring subcontractors to include these clauses in any lower tier subcontracts. The Prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with all the contract clauses cited in this paragraph.

(b)(1) Within 14 days after award of the contract, the Contractor shall deliver to the Contracting Officer a completed Statement and Acknowledgment Form (SF 1413) for each subcontract, including the subcontractor's signed and dated acknowledgment that the clauses set forth in paragraph (a) of this clause have been included in the subcontract.

(2) Within 14 days after the award of any subsequently awarded subcontract the Contractor shall deliver to the Contracting Officer an updated completed SF 1413 for such additional subcontract.

(End of clause)

1.66 52.222-0012

CONTRACT TERMINATION--DEBARMENT (FEB 1988)

A breach of the contract clauses entitled Davis-Bacon Act, Contract Work Hours and Safety Standards Act--Overtime Compensation, Apprentices and Trainees, Payrolls and Basic Records, Compliance with Copeland Act Requirements, Subcontracts (Labor Standards), Compliance with Davis-Bacon and Related Act Regulations, or Certification of Eligibility may be grounds for termination of the contract, and for debarment as a Contractor and

subcontractor as provided in 29 CFR 5.12.
(End of clause)

1.67 52.222-0013

COMPLIANCE WITH DAVIS-BACON AND RELATED ACT REGULATIONS (FEB 1988)

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are hereby incorporated by reference in this contract.

(End of clause)

1.68 52.222-0014

DISPUTES CONCERNING LABOR STANDARDS (FEB 1988)

The United States Department of Labor has set forth in 29 CFR Parts 5, 6, and 7 procedures for resolving disputes concerning labor standards requirements. Such disputes shall be resolved in accordance with those procedures and not the Disputes clause of this contract. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees of their representatives.

(End of clause)

1.69 52.222-0015

CERTIFICATION OF ELIGIBILITY (FEB 1988)

(a) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(b) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(c) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

(End of clause)

1.70 52.223-0006

DRUG-FREE WORKPLACE (MAR 1989)

(a) Definitions. As used in this clause,

"Controlled substance" means a controlled substance in schedules I through V of section 202 of the Controlled Substances Act (21 U.S.C. 812) and as further defined in regulation at 21 CFR 1308.11 - 1308.15.

"Conviction" means a finding of guilt (including a plea of nolo

contendere) or imposition of sentence, or both, by any judicial body charged with the responsibility to determine violations of the Federal or State criminal drug statutes.

"Criminal drug statute" means a Federal or non-Federal criminal statute involving the manufacture, distribution, dispensing, possession or use of any controlled substance.

"Drug-free workplace" means a site for the performance of work done in connection with a specific contract at which employees of the contractor are prohibited from engaging in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance.

"Employee" means an employee of a contractor directly engaged in the performance of work under a Government contract.

"Individual" means an offeror/contractor that has no more than one employee including the offeror/contractor.

(b) The Contractor, if other than an individual, shall--

(1) Publish a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition;

(2) Establish a drug-free awareness program to inform such employees about--

(i) The dangers of drug abuse in the workplace;

(ii) The contractor's policy of maintaining a drug-free workplace;

(iii) Any available drug counseling, rehabilitation, and employee assistance programs; and

(iv) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;

(3) Provide all employees engaged in performance of the contract with a copy of the statement required by subparagraph (b)(1) of this clause;

(4) Notify such employees in the statement required by subparagraph (b)(1) of this clause, that as a condition of continued employment on this contract, the employee will--

(i) Abide by the terms of the statement; and

(ii) Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction;

(5) Notify the contracting officer within ten (10) days after receiving notice under subdivision (b)(4)(ii) of this clause, from an employee or otherwise receiving actual notice of such conviction;

(6) Within 30 days after receiving notice under subdivision (b)(4)(ii) of this clause of a conviction, impose the following sanctions or remedial measures on any employee who is convicted of drug abuse violations occurring in the workplace:

(i) Taking appropriate personnel action against such employee, up to and including termination; or

(4) Provision for identifying illegal drug users, including testing on a controlled and carefully monitored basis. Employee drug testing programs shall be established taking account of the following:

(i) The Contractor shall establish a program that provides for testing for the use of illegal drugs by employees in sensitive positions. The extent of and criteria for such testing shall be determined by the Contractor based on considerations that include the nature of the work being performed under the contract, the employee's duties, the efficient use of Contractor resources, and the risks to health, safety, or national security that could result from the failure of an employee adequately to discharge his or her position.

(ii) In addition, the Contractor may establish a program for employee drug testing--

(A) When there is a reasonable suspicion that an employee uses illegal drugs; or

(B) When an employee has been involved in an accident or unsafe practice;

(C) As part of or as a follow-up to counseling or rehabilitation for illegal drug use;

(D) As part of a voluntary employee drug testing program.

(iii) The Contractor may establish a program to test applicants for employment for illegal drug use.

(iv) For the purpose of administering this clause, testing for illegal drugs may be limited to those substances for which testing is prescribed by section 2.1 of Subpart B of the "Mandatory Guidelines for Federal Workplace Drug Testing Programs" (53 FR 11980 (April 11, 1988)), issued by the Department of Health and Human Services.

(d) Contractors shall adopt appropriate personnel procedures to deal with employees who are found to be using drugs illegally. Contractors shall not allow any employee to remain on duty or perform in a sensitive position who is found to use illegal drugs until such time as the Contractor, in accordance with procedures established by the Contractor, determines that the employee may perform in such a position.

(e) The provisions of this clause pertaining to drug testing programs shall not apply to the extent they are inconsistent with state or local law, or with an existing collective bargaining agreement; provided that with respect to the latter, the Contractor agrees that those issues that are in conflict will be a subject of negotiation at the next collective bargaining session.

(End of clause)

1.72 52.225-0013

RESTRICTIONS ON CONTRACTING WITH SANCTIONED PERSONS (MAY 1989)

(a) Definitions. (1) "Component part" means any article which is not usable for its intended functions without being imbedded or integrated into

(ii) Require such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency.

(7) Make a good faith effort to maintain a drug-free workplace through implementation of subparagraphs (b)(1) through (b)(6) of this clause.

(c) The Contractor, if an individual, agrees by award of the contract or acceptance of a purchase order, not to engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in the performance of this contract.

(d) In addition to other remedies available to the Government, the Contractor's failure to comply with the requirements of paragraphs (b) and (c) of this clause may, pursuant to FAR 23.506, render the contractor subject to suspension of contract payments, termination of the contract for default, and suspension or debarment.

(End of clause)

I.71 52.223-7500

DRUG-FREE WORK FORCE (SEP 1988)

(a) Definitions. "Employee in a sensitive position", as used in this clause, means an employee who has been granted access to classified information; or employees in other positions that the Contractor determines involve national security, health or safety, or functions other than the foregoing requiring a high degree of trust and confidence.

"Illegal drugs", as used in this clause, means controlled substances included in Schedules I and II, as defined by section 802(6) of Title 21 of the United States Code, the possession of which is unlawful under Chapter 13 of that Title. The term "illegal drugs" does not mean the use of a controlled substance pursuant to a valid prescription or other uses authorized by law.

(b) The Contractor agrees to institute and maintain a program for achieving the objective of a drug-free work force. While this clause defines criteria for such a program, Contractors are encouraged to implement alternative approaches comparable to the criteria in paragraph (c) below that are designed to achieve the objectives of this clause.

(c) Contractor programs shall include the following, or appropriate alternatives:

(1) Employee assistance programs emphasizing high level direction, education, counseling, rehabilitation, and coordination with available community resources;

(2) Supervisory training to assist in identifying and addressing illegal drug use by Contractor employees;

(3) Provision for self-referrals as well as supervisory referrals to treatment with maximum respect for individual confidentiality consistent with safety and security issues;

any other product and which, if used in production of a finished product, would be substantially transformed in that process.

(2) "Finished product" means any article which is usable for its intended function without being imbedded in, or integrated into, any other product. It does not include an article produced by a person, other than a sanctioned person, that contains parts or components of the sanctioned person if the parts or components have been substantially transformed during production of the finished product.

(3) "Sanctioned person" means a company or other foreign person upon whom prohibitions have been imposed.

(4) "Substantially transformed," when referring to a component part or finished product, means that the part or product has been subjected to a substantial manufacturing or processing operation by which the part or product is converted or combined into a new and different article of commerce having a new name, character, and use.

(b) General. Section 2443 of the Multilateral Export Control Enhancement Amendments Act (Pub. L. 100-418) and Executive Order 12661, effective December 28, 1988, impose, for a period of 3 years, with certain exceptions, a prohibition on contracting with, or procuring (including rental and lease/purchase) directly or indirectly the products or services of (1) Toshiba Machine Company, (2) Kongsberg Trading Company, (3) Toshiba Corporation, or (4) Kongsberg Vaapenfabrikk. The Act and Executive Order also prohibit, for the same 3-year period, the importation into the United States of all products produced by Toshiba Machine Company and Kongsberg Trading Company. These prohibitions also apply to subsidiaries, successor entities or joint ventures of Toshiba Machine Company or Kongsberg Trading Company.

(c) Restriction. Unless listed by the Contractor in its offer, in the solicitation provision at FAR 52.225-12, Notice of Restrictions on Contracting with Sanctioned Persons, or unless one of the exceptions in paragraph (d) of this clause applies, the Contractor agrees that no products or services delivered to the Government under this contract will be products or services of a sanctioned person.

(d) Exceptions. The restrictions do not apply--

(1) To finished products of nonsanctioned persons containing components of a sanctioned person if these components have been substantially transformed during the manufacture of the finished product.

(2) To products or services of a sanctioned person provided--

(i) The products are designed to the specifications of a nonsanctioned person marketed under the trademark, brand or name of the nonsanctioned person;

(ii) The business relationship between the nonsanctioned person and the sanctioned person clearly existed prior to June 30, 1987; and

(iii) The nonsanctioned person is not directly or indirectly owned by a sanctioned person.

(3) If a determination has been made in accordance with FAR 25.1003(a) or

(b).

(e) Award. Award of any contract resulting from this solicitation will not affect the Contractor's obligation to comply with importation regulations of the Secretary of the Treasury.

(End of clause)

1.73 52.228-0011

PLEDGES OF ASSETS (FEB 1990)

(a) Offerors shall obtain from each person acting as an individual surety on a bid guarantee, a performance bond, or a payment bond--

(1) Pledge of assets; and

(2) Standard Form 28, Affidavit of Individual Surety.

(b) Pledges of assets from each person acting as an individual surety shall be in the form of--

(1) Evidence of an escrow account containing cash, certificates of deposit, commercial or Government securities, or other assets described in FAR 28.203-2 (except see 28.203-2(b)(2) with respect to Government sureties held in book entry form) and/or;

(2) A recorded lien on real estate. The offeror will be required to provide--

(i) Evidence of title in the form of a certificate of title prepared by a title insurance company approved by the United States Department of Justice. This title evidence must show fee simple title vested in the surety along with any concurrent owners; whether any real estate taxes are due and payable; and any recorded encumbrances against the property, including the lien filed in favor of the Government as required by FAR 28.203-3(d);

(ii) Evidence of the amount due under any encumbrance shown in the evidence of title;

(iii) A copy of the current real estate tax assessment of the property or a current appraisal dated no earlier than 6 months prior to the date of the bond, prepared by a professional appraiser who certifies that the appraisal has been conducted in accordance with the generally accepted appraisal standards as reflected in the Uniform Standards of Professional Appraisal Practice, as promulgated by the Appraisal Foundation.

(End of clause)

1.74 52.228-7007

BID BOND (MAR 1989)

(a) The Offeror (Bidder) shall furnish a separate bid bond, or United States bonds, Treasury notes or other public debt obligations of the United States, in the proper form and amount, by the time set for opening of bids. Failure to do so may be cause for rejection of the bid. The Contracting Officer will return bonds or notes of the United States (1) to

unsuccessful bidders as soon as practicable after the opening of bids; and (2) to the successful bidder upon execution of contractual documents and bonds (including any necessary coinsurance or reinsurance agreements), as required by the bid as accepted.

(b) If the successful bidder, upon acceptance of its bid by the Government within the period specified for acceptance, fails to execute all contractual documents or give a bond(s) as required by the solicitation within the time specified, the Contracting Officer may terminate the contract for default.

(c) Unless otherwise specified in the bid, the Bidder will (1) allow sixty (60) days for acceptance of its bid; and (2) give bond within ten (10) days after receipt of the forms by the Bidder.

(d) In the event the contract is terminated for default, the Bidder is liable for any cost of acquiring the work that exceeds the amount of its bid. The bid bond, or bonds or notes of the United States, is available to offset the difference.

(End of clause)

1.75 52.232-0005

PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS (APR 1989)

(a) The Government shall pay the Contractor the contract price as provided in this contract.

(b) The Government shall make progress payments monthly as the work proceeds, or at more frequent intervals as determined by the Contracting Officer, on estimates of work accomplished which meets the standards of quality established under the contract, as approved by the Contracting Officer. The Contractor shall furnish a breakdown of the total contract price showing the amount included therein for each principal category of the work, which shall substantiate the payment amount requested in order to provide a basis for determining progress payments, in such detail as requested by the Contracting Officer. In the preparation of estimates the Contracting Officer may authorize material delivered on the site and preparatory work done to be taken into consideration. Material delivered to the Contractor at locations other than the site may also be taken into consideration if--

(1) Consideration is specifically authorized by this contract; and

(2) The Contractor furnishes satisfactory evidence that it has acquired title to such material and that the material will be used to perform this contract.

(c) Along with each request for progress payments, the contractor shall furnish the following certification, or payment shall not be made:

I hereby certify, to the best of my knowledge and belief, that--

(1) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;

(2) Payments to subcontractors and suppliers have been made from previous

payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements and the requirements of chapter 39 of Title 31, United States Code; and

(3) This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

(Name)

(Title)

(Date)

(d) If the Contractor, after making a certified request for progress payments, discovers that a portion or all of such request constitutes a payment for performance by the Contractor that fails to conform to the specifications, terms, and conditions of this contract (hereinafter referred to as the "unearned amount"), the Contractor shall--

(1) Notify the Contracting Officer of such performance deficiency; and

(2) Be obligated to pay the Government an amount (computed by the Contracting Officer in the manner provided in 31 U.S.C 3903(c)(1) equal to interest on the unearned amount from the date of receipt of the unearned amount until--

(i) The date the Contractor notifies the Contracting Officer that the performance deficiency has been corrected; or

(ii) The date the Contractor reduces the amount of any subsequent certified request for progress payments by an amount equal to the unearned amount.

(e) If the Contracting Officer finds that satisfactory progress was achieved during any period for which a progress payment is to be made, the Contracting Officer shall authorize payment to be made in full. However, if satisfactory progress has not been made, the Contracting Officer may retain a maximum of 10 percent of the amount of the payment until satisfactory progress is achieved. When the work is substantially complete, the Contracting Officer may retain from previously withheld funds and future progress payments that amount the Contracting Officer considers adequate for protection of the Government and shall release to the Contractor all the remaining withheld funds. Also, on completion and acceptance of each separate building, public work, or other division of the contract, for which the price is stated separately in the contract, payment shall be made for the completed work without retention of a percentage.

(f) All material and work covered by progress payments made shall, at the time of payment, become the sole property of the Government, but this shall not be construed as--

(1) Relieving the Contractor from the sole responsibility for all

material and work upon which payments have been made or the restoration of any damaged work; or

(2) Waiving the right of the Government to require the fulfillment of all of the terms of the contract.

(g) In making these progress payments, the Government shall, upon request, reimburse the Contractor for the amount of premiums paid for performance and payment bonds (including coinsurance and reinsurance agreements, when applicable) after the Contractor has furnished evidence of full payment to the surety. The retainage provisions in paragraph (e) of this clause shall not apply to that portion of progress payments attributable to bond premiums.

(h) The Government shall pay the amount due the Contractor under this contract after--

(1) Completion and acceptance of all work;

(2) Presentation of a properly executed voucher; and

(3) Presentation of release of all claims against the Government arising by virtue of this contract, other than claims, in stated amounts, that the Contractor has specifically excepted from the operation of the release. A release may also be required of the assignee if the Contractor's claim to amounts payable under this contract has been assigned under the Assignment of Claims Act of 1940 (31 U.S.C. 3727 and 41 U.S.C. 15).

(i) Notwithstanding any provision of this contract, progress payments shall not exceed 80 percent on work accomplished on undefinitized contract actions. A "contract action" is any action resulting in a contract, as defined in FAR Subpart 2.1, including contract modifications for additional supplies or services, but not including contract modifications that are within the scope and under the terms of the contract, such as contract modifications issued pursuant to the Changes clause, or funding and other administrative changes.

(End of clause)

1.76 52.233-7000

**CERTIFICATION OF REQUESTS FOR ADJUSTMENT OR RELIEF EXCEEDING \$100,000
(FEB 1980)**

(a) Any contract claim, request for equitable adjustment to contract terms, request for relief under Public Law 85-804, or other similar request exceeding \$100,000 shall bear, at the time of submission, the following certificate given by a senior company official in charge at the plant or location involved:

I certify that the claim is made in good faith, that the supporting data are accurate and complete to the best of my knowledge and belief; and that the amount requested accurately reflects the contract adjustment for which the Contractor believes the Government is liable.

(Official's Name)

(Title)

(b) The certification in paragraph (a) requires full disclosure of all relevant facts, including cost and pricing data.

(c) The certification requirement in paragraph (a) does not apply to:

(1) requests for routine contract payments; for example, those for payment for accepted supplies and services, routine vouchers under cost-reimbursement type contracts, and progress payment invoices; and

(2) final adjustments under incentive provisions of contracts.

(d) In those situations where no claim certification for the purposes of Section 813 has been submitted prior to the inception of a contract dispute, a single certification, using the language prescribed by the Contract Disputes Act but signed by a senior company official in charge at the plant or location involved, will be deemed to comply with both statutes.

(End of clause)

1.77 52.236-0015

SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984) (Applies when performance time exceeds 60 Days)

(a) The Contractor shall, within five days after the work commences on the contract or another period of time determined by the Contracting Officer, prepare and submit to the Contracting Officer for approval three copies of a practicable schedule showing the order in which the Contractor proposes to perform the work, and the dates on which the Contractor contemplates starting and completing the several salient features of the work (including acquiring materials, plant, and equipment). The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the period. If the Contractor fails to submit a schedule within the time prescribed, the Contracting Officer may withhold approval of progress payments until the Contractor submits the required schedule.

(b) The Contractor shall enter the actual progress on the chart as directed by the Contracting Officer, and upon doing so shall immediately deliver three copies of the annotated schedule to the Contracting Officer. If, in the opinion of the Contracting Officer, the Contractor falls behind the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Contracting Officer, without additional cost to the Government. In this circumstance, the Contracting Officer may require the Contractor to increase the number of shifts, overtime operations, days of work, and/or the amount of construction plant, and to submit for approval any supplementary schedule

or schedules in chart form as the Contracting Officer deems necessary to demonstrate how the approved rate of progress will be regained.

(c) Failure of the Contractor to comply with the requirements of the Contracting Officer under this clause shall be grounds for a determination by the Contracting Officer that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the contract. Upon making this determination, the Contracting Officer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the default terms of this contract.

(End of clause)

(R 7-603.48 1965 JAN)

I.78 52.236-0021 I

SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (APR 1984)--ALTERNATE I
(APR 1984)

(a) The Contractor shall keep on the work site a copy of the drawings and specifications and shall at all times give the Contracting Officer access thereto. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications, shall be of like effect as if shown or mentioned in both. In case of difference between drawings and specifications, the specifications shall govern. In case of discrepancy in the figures, in the drawings, or in the specifications, the matter shall be promptly submitted to the Contracting Officer, who shall promptly make a determination in writing. Any adjustment by the Contractor without such a determination shall be at its own risk and expense. The Contracting Officer shall furnish from time to time such detailed drawings and other information as considered necessary, unless otherwise provided.

(b) Wherever in the specifications or upon the drawings the words "directed", "required", "ordered", "designated", "prescribed", or words of like import are used, it shall be understood that the "direction", "requirement", "order", "designation", or "prescription", of the Contracting Officer is intended and similarly the words "approved", "acceptable", "satisfactory", or words of like import shall mean "approved by," or "acceptable to", or "satisfactory to" the Contracting Officer, unless otherwise expressly stated.

(c) Where "as shown", "as indicated", "as detailed", or words of similar import are used, it shall be understood that the reference is made to the drawings accompanying this contract unless stated otherwise. The word "provided" as used herein shall be understood to mean "provide complete in place," that is "furnished and installed".

(d) Shop drawings means drawings, submitted to the Government by the Contractor, subcontractor, any lower tier subcontractor pursuant to a construction contract, showing in detail (1) the proposed fabrication and assembly of structural elements, and (2) the installation (i.e., fit,

and attachment details) of materials or equipment. It includes drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the contractor to explain in detail specific portions of the work required by the contract. The Government may duplicate, use, and disclose in any manner and for any purpose shop drawings delivered under this contract.

(e) If this contract requires shop drawings, the Contractor shall coordinate all such drawings, and review them for accuracy, completeness, and compliance with contract requirements and shall indicate its approval thereon as evidence of such coordination and review. Shop drawings submitted to the Contracting Officer without evidence of the Contractor's approval may be returned for resubmission. The Contracting Officer will indicate an approval or disapproval of the shop drawings and if not approved as submitted shall indicate the Government's reasons therefor. Any work done before such approval shall be at the Contractor's risk. Approval by the Contracting Officer shall not relieve the Contractor from responsibility for any errors or omissions in such drawings, nor from responsibility for complying with the requirements of this contract, except with respect to variations described and approved in accordance with (f) below.

(f) If shop drawings show variations from the contract requirements, the Contractor shall describe such variations in writing, separate from the drawings, at the time of submission. If the Contracting Officer approves any such variation, the Contracting Officer shall issue an appropriate contract modification, except that, if the variation is minor or does not involve a change in price or in time of performance, a modification need not be issued.

(g) The Contractor shall submit to the Contracting Officer for approval four copies (unless otherwise indicated) of all shop drawings as called for under the various headings of these specifications. Three sets (unless otherwise indicated) of all shop drawings, will be retained by the Contracting Officer and one set will be returned to the Contractor. Upon completing the work under this contract, the Contractor shall furnish a complete set of all shop drawings as finally approved. These drawings shall show all changes and revisions made up to the time the equipment is completed and accepted.

(h) This clause shall be included in all subcontracts at any tier.

(End of clause)

(7-602.2 JUNE 1964 and 1-7.602-2)

(7-602.41 JAN 1965)

(7-602.47 APR 1966)

(7-602.54 OCT 1976 and 1-7.602-36)

CONTRACT DRAWINGS, MAPS AND SPECIFICATIONS (SEP 1987)

(a) I sets (5 unless otherwise specified) of large-scale (half-size optional) contract drawings and specifications will be furnished the Contractor without charge except applicable publications incorporated into the technical provisions by reference. Additional sets will be furnished on request at the cost of reproduction. One set of reproducibles will be furnished the Contractor on a one-time basis in lieu of the above contract drawings at the option of the Contracting Officer. The work shall conform to the specifications and the following contract drawings identified on the following index of drawings.

Title	File	and	Drawing No.
Renovate 3 Warehouses at St Louis	No. 4		900509.2

(b) Omissions from the drawings or specifications or the misdescription of details of work which are manifestly necessary to carry out the intent of the drawings and specifications, or which are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work but they shall be performed as if fully and correctly set forth and described in the drawings and specifications.

(c) The Contractor shall check all drawings furnished him immediately upon their receipt and shall promptly notify the Contracting Officer of any discrepancies. Figures marked on drawings shall in general be followed in preference to scale measurements. Large scale drawings shall in general govern small scale drawings. The Contractor shall compare all drawings and verify the figures before laying out the work and will be responsible for any errors which might have been avoided thereby.

(End of clause)

CONTRACT PRICES - BIDDING SCHEDULES (APR 1968)

Payment for the various items listed in the Bidding Schedule shall constitute full compensation for furnishing all plant, labor, equipment, appliances, and materials, and for performing all operations required to complete the work in conformity with the drawings and specifications. All costs for work not specifically mentioned in the Bidding Schedule shall be included in the contract prices for the items listed.

(End of clause)

SUPERINTENDENCE OF SUBCONTRACTORS (JAN 1965)

(a) The Contractor shall be required to furnish the following, in addition to the superintendence required by FAR clause at 52.236-6, entitled "SUPERINTENDENCE BY THE CONTRACTOR":

(i) If more than 50% and less than 70% of the value of the contract work is subcontracted, one superintendent shall be provided at the site and on the Contractor's payroll to be responsible for coordinating, directing,

inspecting and expediting the subcontract work.

(ii) If 70% or more of the value of the work is subcontracted, the Contractor shall be required to furnish two such superintendents to be responsible for coordinating, directing, inspecting and expediting the subcontract work.

(b) If the Contracting Officer, at any time after 50% of the subcontracted work has been completed, finds that satisfactory progress is being made, he may waive all or part of the above requirements for additional superintendence subject to the right of the Contracting Officer to reinstate such requirements if at any time during the progress of the remaining work he finds that satisfactory progress is not being made.

(End of clause)

END OF SECTION I

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

Page of Pages

2. AMENDMENT/MODIFICATION NO.

3. EFFECTIVE DATE

4. REGISTRATION/PURCHASE REG. NO.

5. PROJECT NO. (if applicable)

6. ISSUED BY

CODE

DABT31

7. ADMINISTERED BY (if other than Item 6)

CODE

DIRECTORATE OF CONTRACTING

FAX 314-596-4681

P.O. BOX 140

FT. LEONARD WOOD, MO 65473-0140

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

(b)

9A. AMENDMENT OF SOLICITATION NO.

DABT31-90-8-0042

X

9B. DATED (SEE ITEM 11)

06/29/90

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED (SEE ITEM 13)

CODE 00000128

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

☒ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Subject Solicitation for Renovation of Three Warehouses, St. Louis, is amended as follows:

1. Replace pages J-2 and J-3 with revised pages attached.
2. Bid Opening and Site Visits remain unchanged.

Except as provided herein, all terms and conditions of the document referenced in Item 8A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

BY

(Signature of Contracting Officer)

U.S. Department of Labor

REVISED PER AMENDMENT 0001

DABT31-90-B-0042

J-2

GENERAL WAGE DECISION NO. M090-3



Supersedes General Wage Decision No. M089-3

State: MISSOURI

County(ies): Franklin, Jefferson, Lincoln, St. Charles, Warren, and
City and County of St. Louis

Construction
Type: BUILDING

Construction
Description: Building Projects, excluding single family homes and
apartments up to and including 4 stories.

Modification Record:

No.

1

2

Publication Date

May 25, 1990

June 22, 1990

Page No.(s)

660-662

660

REVISED PER AMENDMENT 0001
DAB131-00-B-0042 J-3

M080-3

	BASIC HOURLY RATES	FRINGE BENEFITS
ASBESTOS WORKERS:		
Asbestos Workers	22.50	4.50
Swing Stage of Boson's Chair	21.98	3.84
BOILERMAKERS	18.80	3.50
BRICKLAYERS, STONEMASONS	17.35	4.47
CARPENTERS, MILLWRIGHTS, PILEDRIVERMEN:		
Zone 1	19.81	3.33
CARPENTERS:		
Zone 2:		
Contracts \$100,000.00 and under	17.02	3.33
Contracts over \$100,000.00	19.81	3.33
Zone 3:		
Contracts \$100,000.00 and under	16.77	3.33
Contracts over \$100,000.00	18.54	3.33
CARPET, LINOLEUM, HARDWOOD and RESILIENT TILE LAYERS	18.51	4.69
CEMENT MASONS:		
Zone 1	17.86	4.74
Zone 2:		
Projects less than 10 million	17.16	4.69
Projects 10 million & over	17.86	4.69
ELECTRICIANS:		
Zone 1	19.40	2.20+ 33.5%
Zone 2	19.40	2.20+ 33.5%
Zone 3	14.78	2.20+ 33.5%
ELEVATOR CONSTRUCTORS	19.63	4.77+ a
ELEVATOR CONSTRUCTORS' HELPERS	70% JR	4.77+ a
ELEVATOR CONSTRUCTORS' HELPERS (PROB).	50% JR	
GLAZIERS	18.93	8.20+ 13.2%
IRONWORKERS	20.18	4.34
*LABORERS:		
Zone 1:		
General Laborers; Flagger	17.51	3.30
Wrecking Laborers	17.39	3.30
Plasterers' Tenders	17.57	3.30
*Mason Tenders, Brick	17.45	3.30
Plumber, Labor	17.65	3.30
Site Improvement Labor	17.29	3.30
*Dynamiter or Powderman	18.01	3.30
Zone 2:		
Contracts \$500,000.00 or less:		
General Laborers	14.00	2.50
Mason Tenders, Plumbers' Laborers, Plaster Tender	14.20	2.50
Contracts over \$500,000.00:		
General Laborers	15.50	2.50
Mason Tenders, Plumbers' Laborers Plaster Tender	15.70	2.50
Zone 3:		
Contracts less than \$500,000.00:		
General Laborer	15.00	2.55
Powderman	14.35	2.55
Mason Tenders; Plaster Tenders; Grade Checker; Pipelayers	14.10	2.55

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 2

2. AMENDMENT/MODIFICATION NO.

3. EFFECTIVE DATE

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (if applicable)

0002

07/26/90

W58XJ6-0121-A079

WOF# EP427-88

6. ISSUED BY

CODE

A000031

7. ADMINISTERED BY (if other than Item 6)

CODE

DIRECTORATE OF CONTRACTING
P.O. BOX 140
FT. LEONARD WOOD, MO.
65473-0140

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

(x)

9A. AMENDMENT OF SOLICITATION NO.

DABT31-90-8-0042

9B. DATED (SEE ITEM 11)

06/29/90

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED (SEE ITEM 13)

CODE

00000128

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☒ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS,
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

See attached

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

BY

(Signature of Contracting Officer)

SF 30 CONTINUATION SHEET

Solicitation DABT31-90-B-0042, Renovation of Three Warehouses,
US Army Reserve Center, St. Louis #4, Missouri (WOR #427-88)
is amended as follows:

1. All reference to "exterior" mounting of new and existing door glass guards in the Bid Schedule, Section 01010 - SUMMARY OF WORK and Drawings, shall be changed to read, "interior".
2. Revised bid schedule attached. Replace pages B-1 and B-2 with revised pages attached.
3. SECTION 01010 - SUMMARY OF WORK, page C-05:
 - a. Paragraph 2.6.1, replace with "Contractor shall patch holes made during demolition.
 - b. Add paragraph "2.7 Additive Bid Item 0007: Contractor shall remove any loose roof, window coping, loose bricks under the coping and old mortar and re-install roof, window coping and bricks with new mortar to original condition."
4. SECTION H, Page H-7, H.13 52.236-4210, Utilities:
 - a. Replace sentence with the following paragraph, "a. Electrical power is available at the existing distribution panel located behind Building 2190, however, the Contractor shall be responsible for all temporary connections from the distribution panel. All temporary wiring shall, at a minimum, conform to National Electric Code, Article 305."
 - b. Add paragraph, "b. No water is available at the jobsite. The Contractor shall provide all necessary water."
5. Bid Opening is extended to 2:30 PM, 14 Aug 90.

SECTION B
SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 Notice to proceed will not be issued on this requirement until Asbestos Abatement completed under another requirement.

RENOVATION OF THREE WAREHOUSES AT
US ARMY RESERVE CENTER
ST. LOUIS (STL#4), MISSOURI

WOR# 427-88
DRAWING #900509.2

ITEM	DESCRIPTION	QUANTITY	U/M	U/P	AMOUNT
0001	Remove and Dispose of Existing Steel Tunnel Doors, Handrails, Downspouts, Windows, Fascia Boards and Provide and Install New Tunnel Doors, Handrails, Fascia Boards, Aluminum Fascia, Gutter and Downspouts, Aluminum windows, and Window Guards in accordance with the attached specifications and drawings	1	JB	<u>LUMP</u> - <u>SUM</u>	_____.
0002	Repair, clean, prime, and paint existing handrails, steel deck channels, sliding steel doors, vents, hardware for doors, and frames with mounting trolleys in accordance with the attached specifications and drawings.	1	JB	<u>LUMP</u> - <u>SUM</u>	_____.
0003	Provide and install door glass guards and concrete block walls in tunnel area in accordance with the attached specifications and drawings.	1	JB	<u>LUMP</u> - <u>SUM</u>	_____.

TOTAL BASIC BIDS ITEMS 0001 THRU 0003

\$ _____

ITEM	DESCRIPTION	QUANTITY	U/M	U/P	AMOUNT
ADDITIVE BID ITEMS:					
0004	REMOVE EXISTING LIGHTNING RODS, INTERIOR AND EXTERIOR WIRING, CONDUIT AND ELECTRICAL COMPONENTS, AND SLATE ROOF, PATCH AND REPAIR ROOF DECK, RAFTERS, JOIST, AND INSTALL NEW ROOF SYSTEM WITH VENTILATORS. REMOVE GYPSUM BOARD AND INSULATION FROM CEILING, AND REPLACE GYPSUM CEILING IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS AND DRAWINGS.	1	JB	LUMP . SUM	
0005	PROVIDE AND INSTALL APPROXIMATELY TWO (2) INCHES THICK CONCRETE ON THE 12,000 SQUARE FEET OF FLOOR AREA IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS AND DRAWINGS.	1	JB	LUMP . SUM	
0006	PATCH, REPLACE, AND REPAIR CONCRETE DOCK AND STEPS, LOOSE BRICK AND COPING, AND HOLES IN BRICK IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS AND DRAWINGS.	1	JB	LUMP . SUM	
0007	CONTRACTOR SHALL REMOVE ANY LOOSE ROOF, WINDOW COPING, LOOSE BRICKS UNDER COPING AND OLD MORTAR AND RE-INSTALL EXISTING ROOF, WINDOW COPING AND BRICKS WITH NEW MORTAR TO ORIGINAL CONDITION	1	JB	LUMP . SUM	
TOTAL ADDITIVE BID ITEMS 0004-0007					\$
TOTAL BID (ITEMS 0001 THRU 0007)					\$

END OF SECTION B

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT NO. CODE

PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO. 0003		3. EFFECTIVE DATE 07/31/90		4. REQUISITION/PURCHASE REQ. NO. V58XJ6-0121-A079		5. PROJECT NO. (if applicable) WOB# EP427-88	
6. ISSUED BY DIRECTORATE OF CONTRACTING BLDG. 465 DORMITORY ROAD P.O. BOX 140 FT. LEONARD WOOD, MO 65473-0140		CODE DABT31		7. ADMINISTERED BY (if other than item 6)		CODE	

8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State and ZIP Code)		9A. AMENDMENT OF SOLICITATION NO. DABT31-90-8-0042	
		9B. DATED (SEE ITEM 11) 06/29/90	
		10A. MODIFICATION OF CONTRACT/ORDER NO.	
		10B. DATED (SEE ITEM 13)	
CODE 00000000		FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.	
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).	
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:	
D. OTHER (Specify type of modification and authority)	

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

See attached

Except as provided herein, all terms and conditions of the document referenced in item 8A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	
15C. DATE SIGNED		16C. DATE SIGNED	
Signature of person authorized to sign:		BY Signature of Contracting Officer	

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

Solicitation DABT31-90-B-0042, Renovation of Three Warehouses, US Army Reserve Center, St. Louis #4, Missouri (WOR #427-88) is amended as follows:

1. Revised bid schedule attached. Replace page B-2 with revised page B-2 attached.
2. Section 01010, SUMMARY OF WORK, page C-05, paragraph 2.7, replace paragraph to read, "Contractor shall remove approximately 520 linear feet of loose stone coping and loose bricks under stone coping on parapet walls and windows, remove old mortar and re-install original coping and bricks with new mortar to original condition. If the Contractor damages existing materials during removal or replacement process, the Contractor shall be responsible for replacing any damaged materials with approved equivalent materials."
3. Replace Construction Note #22 on Drawing Number 900509.2 Sheet Two of Two to read, "Repair approximately 520 linear feet of loose stone coping and loose bricks under stone coping on parapet walls and windows, remove old mortar and re-install original coping and bricks with new mortar to original condition. If the Contractor damages existing materials during removal or replacement process, the Contractor shall be responsible for replacing any damaged materials with approved equivalent materials. Contractor shall submit plan of repairs to Contracting Officer."

ITEM	DESCRIPTION	QUANTITY	U/M	U/P	AMOUNT
0003	(Continued)				

ADDITIVE BID ITEMS:

0004	REMOVE EXISTING LIGHTNING RODS, INTERIOR AND EXTERIOR WIRING, CONDUIT AND ELECTRICAL COMPONENTS, AND SLATE ROOF, PATCH AND REPAIR ROOF DECK, RAFTERS, JOIST, AND INSTALL NEW ROOF SYSTEM WITH VENTILATORS. REMOVE GYPSUM BOARD AND INSULATION FROM CEILING, AND REPLACE GYPSUM CEILING IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS AND DRAWINGS.	1	JB	LUMP . SUM	
0005	PROVIDE AND INSTALL APPROXIMATELY TWO (2) INCHES THICK CONCRETE ON THE 12,000 SQUARE FEET OF FLOOR AREA IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS AND DRAWINGS.	1	JB	LUMP . SUM	
0006	PATCH, REPLACE, AND REPAIR CONCRETE DOCK AND STEPS, LOOSE BRICK AND COPING, AND HOLES IN BRICK IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS AND DRAWINGS.	1	JB	LUMP . SUM	
0007	CONTRACTOR SHALL REMOVE APPROXIMATELY 520 LINEAR FEET OF LOOSE STONE COPING AND LOOSE BRICKS UNDER STONE COPING ON PARAPET WALLS AND WINDOWS, REMOVE OLD MORTAR AND REINSTALL STONE COPING AND BRICKS WITH NEW MORTAR TO ORIGINAL CONDITION.	1	JB	LUMP . SUM	

TOTAL ADDITIVE BID ITEMS 0004-0007

TOTAL BID (ITEMS 0001 THRU 0007)

END OF SECTION B